

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
14 June 2001 (14.06.2001)

PCT

(10) International Publication Number
WO 01/42467 A2

(51) International Patent Classification⁷: **C12N 15/12**,
C07K 14/47, 16/30, G01N 33/68, C12Q 1/68, A61K
31/7088 // A61P 35/00

MA 02138 (US). ZHAO, Xumei; 6 Wildwood Lane,
Burlington, MA 01803 (US).

(21) International Application Number: PCT/US00/33312

(74) Agents: SMITH, DeAnn, F. et al.; Lahive & Cockfield,
LLP, 28 State Street, Boston, MA 02109 (US).

(22) International Filing Date: 8 December 2000 (08.12.2000)

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ,
DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,
NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,
TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.

(25) Filing Language: English

(26) Publication Language: English

60/169,681	8 December 1999 (08.12.1999)	US
60/171,350	21 December 1999 (21.12.1999)	US
60/189,315	14 March 2000 (14.03.2000)	US
60/203,791	12 May 2000 (12.05.2000)	US
60/210,600	9 June 2000 (09.06.2000)	US
60/220,114	21 July 2000 (21.07.2000)	US

(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian
patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European
patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE,
IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF,
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant: **MILLENNIUM PREDICTIVE
MEDICINE, INC.** [US/US]; One Kendall Square
Bldg. 700, Cambridge, MA 02139 (US).

Published:

— Without international search report and to be republished
upon receipt of that report.

(72) Inventors: **SCHLEGEL, Robert**; 211 Melrose Street,
Auburndale, MA 02466 (US). **DEEDS, James**; 39 Charn-
wood Road, #1, Somerville, MA 02144 (US). **BERGER,**
Allison; 1105 Massachusetts Avenue, #8A, Cambridge,

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT, PREVEN-
TION, AND THERAPY OF CERVICAL CANCER

(57) Abstract: The invention relates to compositions, kits, and methods for detecting, characterizing, preventing, and treating human
cervical cancers. A variety of novel markers are provided, wherein changes in the levels of expression of one or more of the markers
is correlated with the presence of cervical cancer.

WO 01/42467 A2

NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
IDENTIFICATION, ASSESSMENT, PREVENTION,
AND THERAPY OF CERVICAL CANCER

5 RELATED APPLICATIONS

The present application claims priority to U.S. provisional application serial no. 60/169,681, filed on December 8, 1999, U.S. provisional application serial no. 60/171,350, filed on December 21, 1999, U.S. provisional application serial no. 60/189,315, filed on March 14, 2000, U.S. provisional application serial no. 60/203,791, 10 filed on May 12, 2000, and U.S. provisional application serial no. 60/210,600, filed on June 9, 2000, all of which are expressly incorporated by reference.

FIELD OF THE INVENTION

The field of the invention is cervical cancer, including diagnosis, 15 characterization, management, and therapy of cervical cancer.

BACKGROUND OF THE INVENTION

The increased number of cancer cases reported in the United States, and, indeed, around the world, is a major concern. Currently there are only a handful of treatments 20 available for specific types of cancer, and these provide no absolute guarantee of success. In order to be most effective, these treatments require not only an early detection of the malignancy, but a reliable assessment of the severity of the malignancy.

Cancer of the cervix is one of the most common malignancies in women and remains a significant public health problem throughout the world. In the United States 25 alone, invasive cervical cancer accounts for approximately 19% of all gynecological cancers. In 1996, it is estimated that there will be 14,700 newly diagnosed cases and 4900 deaths attributed to this disease (American Cancer Society, Cancer Facts & Figures 1996, Atlanta, Ga.: American Cancer Society, 1996). In many developing countries, where mass screening programs are not widely available, the clinical problem is more 30 serious. Worldwide, the number of new cases is estimated to be 471,000 with a four-year survival rate of only 40% (Munoz et al., 1989, *Epidemiology of Cervical Cancer* In: "Human Papillomavirus", New York, Oxford Press, pp 9-39; National Institutes of

Health, Consensus Development Conference Statement on Cervical Cancer, Apr.1-3, 1996).

The precursor to cervical cancer is dysplasia, also known in the art as cervical intraepithelial neoplasia (CIN) or squamous intraepithelial lesions (SIL). While it is not understood how normal cells become transformed, the concept of a continuous spectrum of histopathological change from normal, stratified epithelium through CIN to invasive cancer has been widely accepted for many years. A large body of epidemiological and molecular biological evidence has established human papillomavirus (HPV) infection as a causative factor in cervical cancer. HPV is found in 85% or more of squamous cell invasive lesions, which represent the most common histologic type seen in cervical carcinoma. Additional cofactors have also been identified, including oncogenes that have been activated by point mutations and chromosomal translocations or deletions.

In light of this, cervical cancer remains a highly preventable form of cancer when pre-invasive lesions are detected early. Cytological examination of Papanicolaou-stained cervical smears (also referred to as Pap smears) is currently the principle method for detecting cervical cancer. Not surprisingly, the effectiveness of Pap smear screening varies depending not only upon the quality of the sample being used, but also upon subjective parameters that are inherent to the analysis. In addition, despite the historical success of the test, concerns have arisen regarding its ability to reliably predict the behavior of some pre-invasive lesions (Ostor *et al.*, 1993, *Int. J. Gynecol. Pathol.* 12: 186-192; and Genest *et al.*, 1993, *Human Pathol.* 24: 730-736).

It would be therefore be desirable to provide specific methods and reagents for the diagnosis, staging, prognosis, monitoring, and treatment of diseases associated with cervical cancer, or to indicate a predisposition to such for preventative measures.

SUMMARY OF THE INVENTION

The invention relates to novel genes associated with cervical cancer as well as methods of assessing whether a patient is afflicted with cervical cancer. "Cervical cancer" as used herein includes pre-malignant conditions, *e.g.*, CIN and SIL. The methods of the present invention comprise the step of comparing the level of expression of a novel marker in a patient sample, wherein the marker is listed within Tables 1-4, and the normal level of expression of the marker in a control, *e.g.*, a sample from a

patient without cervical cancer. A significant difference between the level of expression of the marker in the patient sample and the normal level is an indication that the patient is afflicted with cervical cancer or has a pre-malignant condition (*e.g.*, CIN and/or SIL).

In one method, the marker(s) are preferably selected such that the positive
5 predictive value of the method is at least about 10%. Also preferred are embodiments of the method wherein the marker is differentially-expressed by at least two-fold in at least about 20% of any of the following conditions: stage 0 cervical cancer patients, stage I cervical cancer patients, stage II cervical cancer patients, stage III cervical cancer patients, stage IV cervical cancer patients, grade I cervical cancer patients, grade II
10 cervical cancer patients, grade III cervical cancer patients, squamous cell (epidermoid) cervical cancer patients, cervical adenocarcinoma patients, cervical adenosquamous carcinoma patients, small-cell cervical carcinoma patients, malignant cervical cancer patients, patients with primary carcinomas of the cervix, patients with primary malignant lymphomas of the cervix and patients with secondary malignant lymphomas of the
15 cervix, and all other types of cancers, malignancies and transformations associated with the cervix.

In one embodiment of the methods of the present invention, the sample comprises cells obtained from the patient. The cells may be found in a cervical smear collected, for example, by a cervical brush. In another embodiment, the patient sample
20 is a cervical-associated body fluid. Such fluids include, for example, blood fluids, lymph, ascitic fluids, gynecological fluids, urine, and fluids collected by peritoneal rinsing.

In accordance with the methods of the present invention, the presence and/or level of expression of the marker in a sample can be assessed, for example, by detecting
25 the presence in the sample of :

- a protein corresponding to the marker or a fragment of the protein (*e.g.* using a reagent, such as an antibody, an antibody derivative, or an antibody fragment, which binds specifically with the protein or a fragment of the protein)
30
- a metabolite which is produced directly (*i.e.*, catalyzed) or indirectly by a protein corresponding to the marker

- 4 -

- a transcribed polynucleotide (*e.g.* an mRNA or a cDNA), or fragment thereof, having at least a portion with which the marker is substantially homologous (*e.g.* by contacting a mixture of transcribed polynucleotides obtained from the sample with a substrate having one or more of the markers listed within Tables 1-4 fixed thereto at selected positions)
- a transcribed polynucleotide or fragment thereof, wherein the polynucleotide anneals with the marker under stringent hybridization conditions.

The methods of the present invention are particularly useful for identifying patients with a pre-malignant condition such as CIN and/or SIL. The methods are also useful for further diagnosing patients having an identified cervical mass or symptoms associated with cervical cancer. The methods of the present invention can further be of particular use with patients having an enhanced risk of developing cervical cancer (*e.g.*, patients having a familial history of cervical cancer and patients identified as having a mutant oncogene). The methods of the present invention may further be of particular use in monitoring the efficacy of treatment of a cervical cancer patient (*e.g.* the efficacy of chemotherapy).

The methods of the present invention may be performed using a plurality (*e.g.* 2, 3, 5, or 10 or more) of markers. According to a method involving a plurality of markers, the level of expression in the sample of each of a plurality of markers independently selected from the markers listed in Tables 1-4 is compared with the normal level of expression of each of the plurality of markers in samples of the same type obtained from control humans not afflicted with cervical cancer. A significantly enhanced level of expression in the sample of one or more of the markers listed in Tables 1-4, or some combination thereof, relative to that marker's corresponding normal levels, is an indication that the patient is afflicted with cervical cancer. The markers of Tables 1-4 may also be used in combination with known cervical cancer markers in the methods of the present invention.

In a preferred method of assessing whether a patient is afflicted with cervical cancer (*e.g.*, new detection ("screening"), detection of recurrence, reflex testing), the method comprises comparing:

- 5 -

- a) the level of expression of a marker in a patient sample, wherein at least one marker is selected from the markers of Tables 1-4, and
- b) the normal level of expression of the marker in a control non-cervical cancer sample.

5 A significant difference between the level of expression of the marker in the patient sample and the normal level is an indication that the patient is afflicted with cervical cancer.

The invention further relates to a method of assessing the efficacy of a therapy
10 for inhibiting cervical cancer in a patient. This method comprises comparing:

- a) expression of a marker in a first sample obtained from the patient prior to providing at least a portion of the therapy to the patient, wherein the marker is selected from the group consisting of the markers listed within Tables 1-4, and
- 15 b) expression of the marker in a second sample obtained from the patient following provision of the portion of the therapy.

A significantly lower level of expression of the marker in the second sample, relative to the first sample, is an indication that the therapy is efficacious for inhibiting cervical cancer in the patient.

20 It will be appreciated that in this method the "therapy" may be any therapy for treating cervical cancer including, but not limited to, chemotherapy, radiation therapy and surgical removal of tissue, *e.g.*, a cervical tumor. Thus, the methods of the invention may be used to evaluate a patient before, during and after therapy, for example, to evaluate the reduction in tumor burden.

25 The present invention therefore further comprises a method for monitoring the progression of cervical cancer in a patient, the method comprising:

- a) detecting in a patient sample at a first time point, the expression of a marker, wherein the marker is selected from the group consisting of the markers listed in Tables 1-4;
- 30 b) repeating step a) at a subsequent time point in time; and
- c) comparing the level of expression detected in steps a) and b), and therefrom monitoring the progression of cervical cancer in the patient.

The invention also includes a method of selecting a composition for inhibiting cervical cancer in a patient. This method comprises the steps of:

- a) obtaining a sample comprising cancer cells from the patient;
- b) separately maintaining aliquots of the sample in the presence of a plurality of test compositions;
- c) comparing expression of a marker listed within Tables 1-4 in each of the aliquots; and
- d) selecting one of the test compositions which induces a lower level of expression of the marker in the aliquot containing that test composition, relative to other test compositions.

In addition, the invention includes a method of inhibiting cervical cancer in a patient. This method comprises the steps of:

- a) obtaining a sample comprising cancer cells from the patient;
- b) separately maintaining aliquots of the sample in the presence of a plurality of test compositions;
- c) comparing expression of a marker listed within Tables 1-4 in each of the aliquots; and
- d) administering to the patient at least one of the test compositions which induces a lower level of expression of the marker in the aliquot containing that test composition, relative to other test compositions.

The invention also includes a kit for assessing whether a patient is afflicted with cervical cancer. This kit comprises reagents for assessing expression of a marker listed within Tables 1-4.

In another aspect, the invention relates to a kit for assessing the suitability of each of a plurality of compounds for inhibiting a cervical cancer in a patient. The kit comprises a reagent for assessing expression of a marker listed within Tables 1-4, and may also comprise a plurality of compounds.

In another aspect, the invention relates to a kit for assessing the presence of cervical cancer cells. This kit comprises an antibody, wherein the antibody binds specifically with a protein corresponding to a marker listed within Tables 1-4. The kit may also comprise a plurality of antibodies, wherein the plurality binds specifically with a protein corresponding to a different marker listed within Tables 1-4.

- 7 -

The invention also includes a kit for assessing the presence of cervical cancer cells, wherein the kit comprises a nucleic acid probe. The probe binds specifically with a transcribed polynucleotide corresponding to a marker listed within Tables 1-4. The kit may also comprise a plurality of probes, wherein each of the probes binds specifically
5 with a transcribed polynucleotide corresponding to a different marker listed within Tables 1-4.

The invention further relates to a method of making an isolated hybridoma which produces an antibody useful for assessing whether a patient is afflicted with cervical cancer. The method comprises isolating a protein or protein fragment corresponding to
10 a marker listed within Tables 1-4, immunizing a mammal using the isolated protein or protein fragment, isolating splenocytes from the immunized mammal, fusing the isolated splenocytes with an immortalized cell line to form hybridomas, and screening individual hybridomas for production of an antibody which specifically binds with the protein or protein fragment to isolate the hybridoma. The invention also includes an antibody
15 produced by this method.

The invention further includes a method of assessing the cervical carcinogenic potential of a test compound. This method comprises the steps of:

- a) maintaining separate aliquots of cervical cells in the presence and absence of the test compound; and
- 20 b) comparing expression of a marker in each of the aliquots.

The marker is selected from those listed within Tables 1-4. A significantly enhanced level of expression of the marker in the aliquot maintained in the presence of (or exposed to) the test compound, relative to the aliquot maintained in the absence of the test compound, is an indication that the test compound possesses cervical
25 carcinogenic potential.

Additionally, the invention includes a kit for assessing the cervical carcinogenic potential of a test compound. The kit comprises cervical cells and a reagent for assessing expression of a marker in each of the aliquots. The marker is selected from those listed within Tables 1-4.

The invention further relates to a method of treating a patient afflicted with cervical cancer. This method comprises providing to cells of the patient an antisense oligonucleotide complementary to a polynucleotide corresponding to a marker listed within Tables 1-4.

- 5 The invention includes a method of inhibiting cervical cancer in a patient at risk for developing cervical cancer. This method comprises inhibiting expression or overexpression of a gene corresponding to a marker listed within Tables 1-4.

It will be appreciated that the methods and kits of the present invention may also include known cancer markers including known cervical cancer markers. It will further
10 be appreciated that the methods and kits may be used to identify cancers other than cervical cancer.

DETAILED DESCRIPTION OF THE INVENTION

The invention relates to newly discovered genes associated with the cancerous
15 state of cervical cells. It has been discovered that the level of expression of these individual genes, also referred to as markers, and combinations of these genes correlates with the presence of cervical cancer or a pre-malignant condition in a patient. Methods are provided for detecting the presence of cervical cancer in a sample, the absence of cervical cancer in a sample, the stage of cervical cancer, and with other characteristics of
20 cervical cancer that are relevant to prevention, diagnosis, characterization and therapy of cervical cancer in a patient. As used herein, "cervical cancer" includes pre-malignant conditions including CIN and SIL.

Definitions

25 As used herein, each of the following terms has the meaning associated with it in this section.

The articles "a" and "an" are used herein to refer to one or to more than one (*i.e.* to at least one) of the grammatical object of the article. By way of example, "an element" means one element or more than one element.

30 A "marker" is a naturally-occurring polymer corresponding to at least one of the novel nucleic acids listed within Tables 1-4. For example, markers include, without limitation, sense and anti-sense strands of genomic DNA (*i.e.* including any introns

occurring therein), RNA generated by transcription of genomic DNA (*i.e.* prior to splicing), RNA generated by splicing of RNA transcribed from genomic DNA, and proteins generated by translation of spliced RNA (*i.e.* including proteins both before and after cleavage of normally cleaved regions such as transmembrane signal sequences).

- 5 As used herein, "marker" may also include a cDNA made by reverse transcription of an RNA generated by transcription of genomic DNA (including spliced RNA).

As used herein a "polynucleotide corresponds to" another (a first) polynucleotide if it is related to the first polynucleotide by any of the following relationships: The second polynucleotide comprises the first polynucleotide and the second polynucleotide
10 encodes a gene product; 2) The second polynucleotide is 5' or 3' to the first polynucleotide in cDNA, RNA, genomic DNA, or fragment of any of these polynucleotides. For example, a second polynucleotide may be a fragment of a gene that includes the first and second polynucleotides. The first and second polynucleotides are related in that they are components of the gene coding for a gene product, such as a
15 protein or antibody. However, it is not necessary that the second polynucleotide comprises or overlaps with the first polynucleotide to be encompassed within the definition of "corresponding to" as used herein. For example, the first polynucleotide may be a fragment of a 3' untranslated region of the second polynucleotide. The first and second polynucleotide may be fragments of a gene coding for a gene product. The
20 second polynucleotide may be an exon of the gene while the first polynucleotide may be an intron of the gene; 3) The second polynucleotide is the complement of the first polynucleotide.

The term "probe" refers to any molecule which is capable of selectively binding to a specifically intended target molecule, for example a marker of the invention.

- 25 Probes can be either synthesized by one skilled in the art, or derived from appropriate biological preparations. For purposes of detection of the target molecule, probes may be specifically designed to be labeled, as described herein. Examples of molecules that can be utilized as probes include, but are not limited to, RNA, DNA, proteins, antibodies, and organic monomers.

- 30 A "cervical-associated" body fluid is a fluid which, when in the body of a patient, contacts or passes through cervical cells or into which cells or proteins shed from cervical cells are capable of passing. Exemplary cervical-associated body fluids

include blood fluids, lymph, ascites, gynecological fluids, cystic fluid, urine, and fluids collected by peritoneal rinsing.

The "normal" level of expression of a marker is the level of expression of the marker in cervical cells of a patient, *e.g.* a human, not afflicted with cervical cancer.

- 5 "Over-expression" and "under-expression" of a marker refer to expression of the marker of a patient at a greater or lesser level, respectively, than normal level of expression of the marker (*e.g.* at least two-fold greater or lesser level).

As used herein, the term "promoter/regulatory sequence" means a nucleic acid sequence which is required for expression of a gene product operably linked to the promoter/regulatory sequence. In some instances, this sequence may be the core promoter sequence and in other instances, this sequence may also include an enhancer sequence and other regulatory elements which are required for expression of the gene product. The promoter/regulatory sequence may, for example, be one which expresses the gene product in a tissue-specific manner.

- 15 A "constitutive" promoter is a nucleotide sequence which, when operably linked with a polynucleotide which encodes or specifies a gene product, causes the gene product to be produced in a living human cell under most or all physiological conditions of the cell.

20 An "inducible" promoter is a nucleotide sequence which, when operably linked with a polynucleotide which encodes or specifies a gene product, causes the gene product to be produced in a living human cell substantially only when an inducer which corresponds to the promoter is present in the cell.

25 A "tissue-specific" promoter is a nucleotide sequence which, when operably linked with a polynucleotide which encodes or specifies a gene product, causes the gene product to be produced in a living human cell substantially only if the cell is a cell of the tissue type corresponding to the promoter.

30 A "transcribed polynucleotide" is a polynucleotide (*e.g.* an RNA, a cDNA, or an analog of one of an RNA or cDNA) which is complementary to or homologous with all or a portion of a mature RNA made by transcription of a genomic DNA corresponding to a marker of the invention and normal post-transcriptional processing (*e.g.* splicing), if any, of the transcript.

"Complementary" refers to the broad concept of sequence complementarity between regions of two nucleic acid strands or between two regions of the same nucleic acid strand. It is known that an adenine residue of a first nucleic acid region is capable of forming specific hydrogen bonds ("base pairing") with a residue of a second nucleic acid region which is antiparallel to the first region if the residue is thymine or uracil. Similarly, it is known that a cytosine residue of a first nucleic acid strand is capable of base pairing with a residue of a second nucleic acid strand which is antiparallel to the first strand if the residue is guanine. A first region of a nucleic acid is complementary to a second region of the same or a different nucleic acid if, when the two regions are arranged in an antiparallel fashion, at least one nucleotide residue of the first region is capable of base pairing with a residue of the second region. Preferably, the first region comprises a first portion and the second region comprises a second portion, whereby, when the first and second portions are arranged in an antiparallel fashion, at least about 50%, and preferably at least about 75%, at least about 90%, or at least about 95% of the nucleotide residues of the first portion are capable of base pairing with nucleotide residues in the second portion. More preferably, all nucleotide residues of the first portion are capable of base pairing with nucleotide residues in the second portion.

"Homologous" as used herein, refers to nucleotide sequence similarity between two regions of the same nucleic acid strand or between regions of two different nucleic acid strands. When a nucleotide residue position in both regions is occupied by the same nucleotide residue, then the regions are homologous at that position. A first region is homologous to a second region if at least one nucleotide residue position of each region is occupied by the same residue. Homology between two regions is expressed in terms of the proportion of nucleotide residue positions of the two regions that are occupied by the same nucleotide residue. By way of example, a region having the nucleotide sequence 5'-ATTGCC-3' and a region having the nucleotide sequence 5'-TATGGC-3' share 50% homology. Preferably, the first region comprises a first portion and the second region comprises a second portion, whereby, at least about 50%, and preferably at least about 75%, at least about 90%, or at least about 95% of the nucleotide residue positions of each of the portions are occupied by the same nucleotide residue. More preferably, all nucleotide residue positions of each of the portions are occupied by the same nucleotide residue.

A marker is "fixed" to a substrate if it is covalently or non-covalently associated with the substrate such the substrate can be rinsed with a fluid (*e.g.* standard saline citrate, pH 7.4) without a substantial fraction of the marker dissociating from the substrate.

5 As used herein, a "naturally-occurring" nucleic acid molecule refers to an RNA or DNA molecule having a nucleotide sequence that occurs in nature (*e.g.* encodes a natural protein).

 Expression of a marker in a patient is "significantly" higher than the normal level of expression of a marker if the level of expression of the marker is greater than the
10 normal level by an amount greater than the standard error of the assay employed to assess expression, and preferably at least twice, and more preferably three, four, five or ten times that amount. Alternately, expression of the marker in the patient can be considered "significantly" higher or lower than the normal level of expression if the level of expression is at least about two, and preferably at least about three, four, or five
15 times, higher or lower, respectively, than the normal level of expression of the marker.

 Cervical cancer is "inhibited" if at least one symptom of the cancer is alleviated, terminated, slowed, or prevented. As used herein, cervical cancer is also "inhibited" if recurrence or metastasis of the cancer is reduced, slowed, delayed, or prevented.

 A kit is any manufacture (*e.g.* a package or container) comprising at least one
20 reagent, *e.g.* a probe, for specifically detecting a marker of the invention, the manufacture being promoted, distributed, or sold as a unit for performing the methods of the present invention.

Description

25 The present invention is based, in part, on identification of novel markers which are expressed at a higher level in cervical cancer cells than they are in normal (*i.e.* non-cancerous) cervical cells. The markers of the invention correspond to nucleic acid and polypeptide molecules which can be detected in one or both of normal and cancerous cervical cells. The presence, absence, or level of expression of one or more of these
30 markers in cervical cells is herein correlated with the cancerous state of the tissue. The invention thus includes compositions, kits, and methods for assessing the cancerous state

- 13 -

of cervical cells (*e.g.* cells obtained from a human, cultured human cells, archived or preserved human cells and *in vivo* cells).

The compositions, kits, and methods of the invention have the following uses, among others:

- 5 1) assessing whether a patient is afflicted with cervical cancer, including assessing whether the patient has a pre-malignant condition, *e.g.*, CIN and/or SIL;
- 2) assessing the stage of cervical cancer in a human patient;
- 3) assessing the grade of cervical cancer in a patient;
- 4) assessing the benign or malignant nature of cervical cancer in a patient;
- 10 5) assessing the histological type of neoplasm (*e.g.* squamous cell, small cell, etc.) associated with cervical cancer in a patient;
- 6) making an isolated hybridoma which produces an antibody useful for assessing whether a patient is afflicted with cervical cancer;
- 7) assessing the presence of cervical cancer cells;
- 15 8) assessing the efficacy of one or more test compounds for inhibiting cervical cancer in a patient;
- 9) assessing the efficacy of a therapy for inhibiting cervical cancer in a patient;
- 10) monitoring the progression of cervical cancer in a patient;
- 20 11) selecting a composition or therapy for inhibiting cervical cancer in a patient;
- 12) treating a patient afflicted with cervical cancer;
- 13) inhibiting cervical cancer in a patient;
- 14) assessing the cervical carcinogenic potential of a test compound;
- 25 and
- 15) inhibiting cervical cancer in a patient at risk for developing cervical cancer.

30 The invention thus includes a method of assessing whether a patient is afflicted with cervical cancer which includes assessing whether the patient has a pre-malignant condition. This method comprises comparing the level of expression of a marker in a patient sample and the normal level of expression of the marker in a control, *e.g.*, a non-

cervical cancer sample. A significant difference between the level of expression of the marker in the patient sample and the normal level is an indication that the patient is afflicted with cervical cancer. The marker is selected from the group consisting of the markers listed within Tables 1-4.

5 The polynucleotides set forth in Tables 1-4 represent previously unidentified nucleotide sequences. These nucleotide sequences were identified through subtracted library experiments described herein. Also provided by this invention are polynucleotides that correspond to the polynucleotides of Tables 1-4. In one
10 embodiment, these polynucleotides are obtained by identification of a larger fragment or full-length coding sequence of these polynucleotides. Gene delivery vehicles, host cells, compositions and databases (all describe herein) containing these polynucleotides are also provided by this invention.

 The invention also encompasses polynucleotides which differ from that of the polynucleotides described above, but which produce the same phenotypic effect, such as
15 an allelic variant. These altered, but phenotypically equivalent polynucleotides are referred to as "equivalent nucleic acids." This invention also encompasses polynucleotides characterized by changes in non-coding regions that do not alter the polypeptide produced therefrom when compared to the polynucleotide herein. This
20 invention further encompasses polynucleotides, which hybridize to the polynucleotides of the subject invention under conditions of moderate or high stringency. Alternatively, the polynucleotides are at least 85%, or at least 90%, or more preferably, greater or equal to 95% identical as determined by a sequence alignment program when run under default parameters.

 Any marker or combination of markers listed within Tables 1-4, as well as any
25 known markers in combination with the markers set forth within Tables 1-4, may be used in the compositions, kits, and methods of the present invention. In general, it is preferable to use markers for which the difference between the level of expression of the marker in cervical cancer cells and the level of expression of the same marker in normal cervical cells is as great as possible. Although this difference can be as small as the
30 limit of detection of the method for assessing expression of the marker, it is preferred that the difference be at least greater than the standard error of the assessment method,

and preferably a difference of at least 2-, 3-, 4-, 5-, 6-, 7-, 8-, 9-, 10-, 15-, 20-, 25-, 100-, 500-, 1000-fold or greater.

It will be appreciated that patient samples containing cervical cells may be used in the methods of the present invention. In these embodiments, the level of expression
5 of the marker can be assessed by assessing the amount (*e.g.* absolute amount or concentration) of the marker in a cervical cell sample, *e.g.*, cervical smear, obtained from a patient. The cell sample can, of course, be subjected to a variety of well-known post-collection preparative and storage techniques (*e.g.* storage, freezing, ultrafiltration, concentration, evaporation, centrifugation, etc.) prior to assessing the amount of the
10 marker in the sample. Likewise cervical smears may also be subjected to post-collection preparative and storage techniques, *e.g.*, fixation.

It will also be appreciated that certain markers correspond to proteins or fragments thereof, which are secreted from cervical cells (*i.e.* one or both of normal and cancerous cells) to the extracellular space surrounding the cells. These markers are
15 preferably used in certain embodiments of the compositions, kits, and methods of the invention, owing to the fact that the protein or fragment thereof, corresponding to each of these markers can be detected in a cervical-associated body fluid sample. In addition, preferred *in vivo* techniques for detection of a protein or fragment thereof, corresponding to a marker of the invention include introducing into a subject a labeled antibody
20 directed against the protein or fragment of the protein. For example, the antibody can be labeled with a radioactive marker whose presence and location in a subject can be detected by standard imaging techniques.

Although not every marker corresponding to a secreted protein is indicated as such herein, it is a simple matter for the skilled artisan to determine whether any
25 particular marker corresponds to a secreted protein. In order to make this determination, the protein corresponding to a marker is expressed in a test cell (*e.g.* a cell of a cervical cell line), extracellular fluid is collected, and the presence or absence of the protein in the extracellular fluid is assessed (*e.g.* using a labeled antibody which binds specifically with the protein).

The following is an example of a method which can be used to detect secretion of a protein corresponding to a marker of the invention. About 8×10^5 293T cells are incubated at 37°C in wells containing growth medium (Dulbecco's modified Eagle's medium {DMEM} supplemented with 10% fetal bovine serum) under a 5% (v/v) CO₂, 95% air atmosphere to about 60-70% confluence. The cells are then transfected using a standard transfection mixture comprising 2 micrograms of DNA comprising an expression vector encoding the protein and 10 microliters of LipofectAMINE™ (GIBCO/BRL Catalog no. 18342-012) per well. The transfection mixture is maintained for about 5 hours, and then replaced with fresh growth medium and maintained in an air atmosphere. Each well is gently rinsed twice with DMEM which does not contain methionine or cysteine (DMEM-MC; ICN Catalog no. 16-424-54). About 1 milliliter of DMEM-MC and about 50 microcuries of Trans-³⁵S™ reagent (ICN Catalog no. 51006) are added to each well. The wells are maintained under the 5% CO₂ atmosphere described above and incubated at 37°C for a selected period. Following incubation, 150 microliters of conditioned medium is removed and centrifuged to remove floating cells and debris. The presence of the protein in the supernatant is an indication that the protein is secreted.

Examples of cervical-associated body fluids include blood fluids (*e.g.* whole blood, blood serum, blood having platelets removed therefrom, etc.), lymph, ascitic fluids, gynecological fluids (*e.g.* cervix, fallopian, and uterine secretions, menses, vaginal douching fluids, fluids used to rinse cervical cell samples, etc.), cystic fluid, urine, and fluids collected by peritoneal rinsing (*e.g.* fluids applied and collected during laparoscopy or fluids instilled into and withdrawn from the peritoneal cavity of a human patient).

Many cervical-associated body fluids can have cervical cells therein, particularly when the cervical cells are cancerous, and, more particularly, when the cervical cancer is metastasizing. Cell-containing fluids which can contain cervical cancer cells include, but are not limited to, peritoneal ascites, fluids collected by peritoneal rinsing, fluids collected by uterine rinsing, uterine fluids such as uterine exudate and menses, pleural fluid, and cervical exudates. Thus, the compositions, kits, and methods of the invention can be used to detect expression of markers corresponding to proteins or fragments thereof, having at least one portion which is displayed on the surface of cells which

express it. Although the proteins having at least one cell-surface portion are not set forth herein, it is a simple matter for the skilled artisan to determine whether the protein corresponding to any particular marker comprises a cell-surface protein. For example, immunological methods may be used to detect such proteins on whole cells, or well known computer-based sequence analysis methods (e.g. the SIGNALP program; Nielsen *et al.*, 1997, *Protein Engineering* 10:1-6) may be used to predict the presence of at least one extracellular domain (*i.e.* including both secreted proteins and proteins having at least one cell-surface domain). Expression of a marker corresponding to a protein or fragment thereof, having at least one portion which is displayed on the surface of a cell which expresses it may be detected without necessarily lysing the cell (e.g. using a labeled antibody which binds specifically with a cell-surface domain of the protein).

Expression of a marker of the invention may be assessed by any of a wide variety of well known methods for detecting expression of a transcribed molecule or protein. Non-limiting examples of such methods include immunological methods for detection of secreted, cell-surface, cytoplasmic, or nuclear proteins, protein purification methods, protein function or activity assays, nucleic acid hybridization methods, nucleic acid reverse transcription methods, and nucleic acid amplification methods. *In situ* hybridization (ISH) and immunohistochemistry (IHC) methods are preferred.

In another preferred embodiment, expression of a marker is assessed using an antibody (e.g. a radio-labeled, chromophore-labeled, fluorophore-labeled, or enzyme-labeled antibody), an antibody derivative (e.g. an antibody conjugated with a substrate or with the protein or ligand of a protein-ligand pair {e.g. biotin-streptavidin}), or an antibody fragment (e.g. a single-chain antibody, an isolated antibody hypervariable domain, etc.) which binds specifically with a protein or fragment thereof, corresponding to the marker, such as the protein encoded by the open reading frame corresponding to the marker or such a protein which has undergone all or a portion of its normal post-translational modification.

In yet another preferred embodiment, expression of a marker is assessed by preparing mRNA/cDNA (*i.e.* a transcribed polynucleotide) from cells in a patient sample, and by hybridizing the mRNA/cDNA with a reference polynucleotide which is a complement of a polynucleotide comprising the marker, and fragments thereof. cDNA can, optionally, be amplified using any of a variety of polymerase chain reaction

methods prior to hybridization with the reference polynucleotide. Expression of one or more markers can likewise be detected using quantitative PCR to assess the level of expression of the marker(s). Alternatively, any of the many known methods of detecting mutations or variants (*e.g.* single nucleotide polymorphisms, deletions, etc.) of a marker
5 of the invention may be used to detect occurrence of a marker in a patient.

In a related embodiment, a mixture of transcribed polynucleotides obtained from the sample is contacted with a substrate having fixed thereto a polynucleotide complementary to or homologous with at least a portion (*e.g.* at least 7, 10, 15, 20, 25, 30, 40, 50, 100, 500, or more nucleotide residues) of a marker of the invention. If
10 polynucleotides complementary to or homologous with are differentially detectable on the substrate (*e.g.* detectable using different chromophores or fluorophores, or fixed to different selected positions), then the levels of expression of a plurality of markers can be assessed simultaneously using a single substrate (*e.g.* a "gene chip" microarray of polynucleotides fixed at selected positions). When a method of assessing marker
15 expression is used which involves hybridization of one nucleic acid with another, it is preferred that the hybridization be performed under stringent hybridization conditions.

Because the compositions, kits, and methods of the invention rely on detection of a difference in expression levels of one or more markers of the invention, it is preferable that the level of expression of the marker is significantly greater than the minimum
20 detection limit of the method used to assess expression in at least one of normal cervical cells and cancerous cervical cells.

It is understood that by routine screening of additional patient samples using one or more of the markers of the invention, it will be realized that certain of the markers are over- (or under-)expressed in cancers of various types, including specific cervical
25 cancers, as well as other cancers such as ovarian cancer, breast cancer, etc. For example, it will be confirmed that some of the markers of the invention are over-expressed in most (*i.e.* 50% or more) or substantially all (*i.e.* 80% or more) of cervical cancer. Furthermore, it will be confirmed that certain of the markers of the invention are associated with cervical cancer of various stages (*i.e.* stage 0, I, II, III, and IV cervical
30 cancers, as well as subclassifications IA1, IA2, IB, IB1, IB2, IIA, IIB, IIIA, IIIB, IVA, and IVB, using the FIGO Stage Grouping system for primary carcinoma of the cervix (see Gynecologic Oncology, 1991, 41:199 and Cancer, 1992, 69:482)), of various

histologic subtypes (e.g. squamous cell carcinomas and squamous cell carcinoma variants such as verrucous carcinoma, lymphoepithelioma-like carcinoma, papillary squamous neoplasm and spindle cell squamous cell carcinoma (see Cervical Cancer and Preinvasive Neoplasia, 1996, pp. 90-91), serous, mucinous, endometrioid, and clear cell

5 subtypes, as well as subclassifications and alternate classifications adenocarcinoma, papillary adenocarcinoma, papillary cystadenocarcinoma, surface papillary carcinoma, malignant adenofibroma, cystadenofibroma, adenocarcinoma, cystadenocarcinoma, adenoacanthoma, endometrioid stromal sarcoma, mesodermal {Müllerian} mixed tumor, malignant carcinoma, Brenner tumor, mixed epithelial tumor, and undifferentiated

10 carcinoma, using the WHO/FIGO system for classification of malignant cervical tumors; Scully, *Atlas of Tumor Pathology*, 3d series, Washington DC), and various grades (i.e. grade I {well differentiated} , grade II {moderately well differentiated}, and grade III {poorly differentiated from surrounding normal tissue}). In addition, as a greater number of patient samples are assessed for expression of the markers of the invention

15 and the outcomes of the individual patients from whom the samples were obtained are correlated, it will also be confirmed that altered expression of certain of the markers of the invention are strongly correlated with malignant cancers and that altered expression of other markers of the invention are strongly correlated with benign tumors. The compositions, kits, and methods of the invention are thus useful for characterizing one

20 or more of the stage, grade, histological type, and benign/malignant nature of cervical cancer in patients.

When the compositions, kits, and methods of the invention are used for characterizing one or more of the stage, grade, histological type, and benign/malignant nature of cervical cancer in a patient, it is preferred that the marker or panel of markers

25 of the invention is selected such that a positive result is obtained in at least about 20%, and preferably at least about 40%, 60%, or 80%, and more preferably in substantially all patients afflicted with a cervical cancer of the corresponding stage, grade, histological type, or benign/malignant nature. Preferably, the marker or panel of markers of the invention is selected such that a positive predictive value (PPV) of greater than about

30 10% is obtained for the general population (more preferably coupled with an assay specificity greater than 99.5%).

When a plurality of markers of the invention are used in the compositions, kits, and methods of the invention, the level of expression of each marker in a patient sample can be compared with the normal level of expression of each of the plurality of markers in non-cancerous samples of the same type, either in a single reaction mixture (*i.e.* using reagents, such as different fluorescent probes, for each marker) or in individual reaction mixtures corresponding to one or more of the markers. In one embodiment, a significantly enhanced level of expression of more than one of the plurality of markers in the sample, relative to the corresponding normal levels, is an indication that the patient is afflicted with cervical cancer. When a plurality of markers is used, it is preferred that 2, 3, 4, 5, 8, 10, 12, 15, 20, 30, or 50 or more individual markers be used, wherein fewer markers are preferred.

In order to maximize the sensitivity of the compositions, kits, and methods of the invention (*i.e.* by interference attributable to cells of non-cervical origin in a patient sample), it is preferable that the marker of the invention used therein be a marker which has a restricted tissue distribution, *e.g.*, normally not expressed in non-cervical tissue.

Only a small number of markers are known to be associated with cervical cancers (*e.g.* bcl-2, 15A8 antigen, cdc6, Mcm5, and EGFR). These markers are not, of course, included among the markers of the invention, although they may be used together with one or more markers of the invention in a panel of markers, for example. It is well known that certain types of genes, such as oncogenes, tumor suppressor genes, growth factor-like genes, protease-like genes, and protein kinase-like genes are often involved with development of cancers of various types. Thus, among the markers of the invention, use of those which correspond to proteins which resemble known proteins encoded by known oncogenes and tumor suppressor genes, and those which correspond to proteins which resemble growth factors, proteases, and protein kinases are preferred.

Known oncogenes and tumor suppressor genes include, for example, *abl*, *abr*, *akt2*, *apc*, *bcl2 α* , *bcl2 β* , *bcl3*, *bcr*, *brca1*, *brca2*, *cbl*, *ccnd1*, *cdc42*, *cdk4*, *crk-11*, *csflr/fms*, *dbl*, *dcc*, *dpc4/smad4*, *e-cad*, *e2f1/rbap*, *egfr/erbB-1*, *elk1*, *elk3*, *epb*, *erg*, *ets1*, *ets2*, *fer*, *fgr/src2*, *flil/erbB2*, *fos*, *fps/fes*, *fra1*, *fra2*, *fyn*, *hck*, *hek*, *her2/erbB-2/neu*, *her3/erbB-3*, *her4/erbB-4*, *hras1*, *hst2*, *hstf1*, *igfbp2*, *ink4a*, *ink4b*, *int2/lfgf3*, *jun*, *junb*, *jund*, *kip2*, *kit*, *kras2a*, *kras2b*, *lck*, *lyn*, *mas*, *max*, *mcc*, *mdm2*, *met*, *mlh1*, *mmp10*, *mos*, *msh2*, *msh3*, *msh6*, *myb*, *myba*, *mybb*, *myc*, *mycl1*, *mycn*, *nfl*, *nf2*, *nme2*, *nras*, *p53*,

pdgfb, phb, pim1, pms1, pms2, ptc, pten, raf1, rap1a, rbl, rel, ret, ros1, ski, src1, tall, tgfb2, tgfb3, tgfb3, thra1, thrb, tiam1, timp3, tjp1, tp53, trk, vav, vhl, vil2, waf1, wnt1, wnt2, wt1, and yes1 (Hesketh, 1997, In: *The Oncogene and Tumour Suppressor Gene Facts Book*, 2nd Ed., Academic Press; Fishel *et al.*, 1994, *Science* 266:1403-1405).

5 Known growth factors include platelet-derived growth factor alpha, platelet-derived growth factor beta (simian sarcoma viral {v-sis} oncogene homolog), thrombopoietin (myeloproliferative leukemia virus oncogene ligand, megakaryocyte growth and development factor), erythropoietin, B cell growth factor, macrophage stimulating factor 1 (hepatocyte growth factor-like protein), hepatocyte growth factor
10 (hepapoietin A), insulin-like growth factor 1 (somatomedia C), hepatoma-derived growth factor, amphiregulin (schwannoma-derived growth factor), bone morphogenetic proteins 1, 2, 3, 3 beta, and 4, bone morphogenetic protein 7 (osteogenic protein 1), bone morphogenetic protein 8 (osteogenic protein 2), connective tissue growth factor, connective tissue activation peptide 3, epidermal growth factor (EGF), teratocarcinoma-
15 derived growth factor 1, endothelin, endothelin 2, endothelin 3, stromal cell-derived factor 1, vascular endothelial growth factor (VEGF), VEGF-B, VEGF-C, placental growth factor (vascular endothelial growth factor-related protein), transforming growth factor alpha, transforming growth factor beta 1 and its precursors, transforming growth factor beta 2 and its precursors, fibroblast growth factor 1 (acidic), fibroblast growth
20 factor 2 (basic), fibroblast growth factor 5 and its precursors, fibroblast growth factor 6 and its precursors, fibroblast growth factor 7 (keratinocyte growth factor), fibroblast growth factor 8 (androgen-induced), fibroblast growth factor 9 (glia-activating factor), pleiotrophin (heparin binding growth factor 8, neurite growth-promoting factor 1), brain-derived neurotrophic factor, and recombinant glial growth factor 2.

25 Known proteases include interleukin-1 beta convertase and its precursors, Mch6 and its precursors, Mch2 isoform alpha, Mch4, Cpp32 isoform alpha, Lice2 gamma cysteine protease, Ich-1S, Ich-1L, Ich-2 and its precursors, TY protease, matrix metalloproteinase 1 (interstitial collagenase), matrix metalloproteinase 2 (gelatinase A, 72kD gelatinase, 72kD type IV collagenase), matrix metalloproteinase 7 (matrilysin),
30 matrix metalloproteinase 8 (neutrophil collagenase), matrix metalloproteinase 12 (macrophage elastase), matrix metalloproteinase 13 (collagenase 3), metalloproteinase 1, cysteine-rich metalloproteinase (disintegrin) and its precursors, subtilisin-like protease Pc8

and its precursors, chymotrypsin, snake venom-like protease, cathepsin I, cathepsin D (lysosomal aspartyl protease), stromelysin, aminopeptidase N, plasminogen, tissue plasminogen activator, plasminogen activator inhibitor type II, and urokinase-type plasminogen activator.

- 5 Known protein kinases include DAP kinase, serine/threonine protein kinases NIK, PK428, Krs-2, SAK, and EMK, interferon-inducible double stranded RNA dependent protein kinase, FAST kinase, AIM1, IPL1-like midbody-associated protein kinase-1, NIMA-like protein kinase 1 (NLK1), the cyclin-dependent kinases (cdk1-10), checkpoint kinase Chk1, Nek3 protein kinase, BMK1 beta kinase, Clk1, Clk2, Clk3,
- 10 extracellular signal-regulated kinases 1, 3, and 6, cdc28 protein kinase 1, cdc28 protein kinase 2, pLK, Myt1, c-Jun N-terminal kinase 2, Cam kinase 1, the MAP kinases, insulin-stimulated protein kinase 1, beta-adrenergic receptor kinase 2, ribosomal protein S6 kinase, kinase suppressor of ras-1 (KSR1), putative serine/threonine protein kinase Prk, PkB kinase, cAMP-dependent protein kinase, cGMP-dependent protein kinase, type
- 15 II cGMP-dependent protein kinase, protein kinases Dyrk2, Dyrk3, and Dyrk4, Rho-associated coiled-coil containing protein kinase p160ROCK, protein tyrosine kinase t-Ror1, Ste20-related kinases, cell adhesion kinase beta, protein kinase 3, stress-activated protein kinase 4, protein kinase Zpk, serine kinase hPAK65, dual specificity mitogen-activated protein kinases 1 and 2, casein kinase I gamma 2, p21-activated protein kinase
- 20 Pak1, lipid-activated protein kinase PRK2, focal adhesion kinase, dual-specificity tyrosine-phosphorylation regulated kinase, myosin light chain kinase, serine kinases SRPK2, TESK1, and VRK2, B lymphocyte serine/threonine protein kinase, stress-activated protein kinases JNK1 and JNK2, phosphorylase kinase, protein tyrosine kinase Tec, Jak2 kinase, protein kinase Ndr, MEK kinase 3, SHB adaptor protein (a Src
- 25 homology 2 protein), agammaglobulinaemia protein-tyrosine kinase (Atk), protein kinase ATR, guanylate kinase 1, thrombopoietin receptor and its precursors, DAG kinase epsilon, and kinases encoded by oncogenes or viral oncogenes such as v-fgr (Gardner-Rasheed), v-abl (Abelson murine leukemia viral oncogene homolog 1), v-arg (Abelson murine leukemia viral oncogene homolog, Abelson-related gene), v-fes and v-
- 30 fps (feline sarcoma viral oncogene and Fujinami avian sarcoma viral oncogene homologs), proto-oncogene *c-cot*, oncogene *pim-1*, and oncogene *mas1*.

It is recognized that the compositions, kits, and methods of the invention will be of particular utility to patients having an enhanced risk of developing cervical cancer and their medical advisors. Patients recognized as having an enhanced risk of developing cervical cancer include, for example, patients having a familial history of cervical cancer, patients identified as having a mutant oncogene (*i.e.* at least one allele), and patients determined through any other established medical criteria to be at risk for cancer or other malignancy.

The level of expression of a marker in normal (*i.e.* non-cancerous) human cervical tissue can be assessed in a variety of ways. In one embodiment, this normal level of expression is assessed by assessing the level of expression of the marker in a portion of cervical cells which appears to be non-cancerous and by comparing this normal level of expression with the level of expression in a portion of the cervical cells which is suspected of being cancerous. For example, the normal level of expression of a marker may be assessed using a non-affected portion of the cervix and this normal level of expression may be compared with the level of expression of the same marker in an affected portion of the cervix. Alternately, and particularly as further information becomes available as a result of routine performance of the methods described herein, population-average values for normal expression of the markers of the invention may be used. In other embodiments, the 'normal' level of expression of a marker may be determined by assessing expression of the marker in a patient sample obtained from a non-cancer-afflicted patient, from a patient sample obtained from a patient before the suspected onset of cervical cancer in the patient, from archived patient samples, and the like.

The invention includes compositions, kits, and methods for assessing the presence of cervical cancer cells in a sample (*e.g.* an archived tissue sample or a sample obtained from a patient). These compositions, kits, and methods are substantially the same as those described above, except that, where necessary, the compositions, kits, and methods are adapted for use with samples other than patient samples. For example, when the sample to be used is a paraffinized, archived human tissue sample, it can be necessary to adjust the ratio of compounds in the compositions of the invention, in the kits of the invention, or the methods used to assess levels of marker expression in the

sample. Such methods are well known in the art and within the skill of the ordinary artisan.

The invention includes a kit for assessing the presence of cervical cancer cells (e.g. in a sample such as a patient sample). The kit comprises a plurality of reagents, each of which is capable of binding specifically with a nucleic acid or polypeptide corresponding to a marker of the invention. Suitable reagents for binding with a polypeptide corresponding to a marker of the invention include antibodies, antibody derivatives, antibody fragments, and the like. Suitable reagents for binding with a nucleic acid (e.g. a genomic DNA, an mRNA, a spliced mRNA, a cDNA, or the like) include complementary nucleic acids. For example, the nucleic acid reagents may include oligonucleotides (labeled or non-labeled) fixed to a substrate, labeled oligonucleotides not bound with a substrate, pairs of PCR primers, molecular beacon probes, and the like.

The kit of the invention may optionally comprise additional components useful for performing the methods of the invention. By way of example, the kit may comprise fluids (e.g. SSC buffer) suitable for annealing complementary nucleic acids or for binding an antibody with a protein with which it specifically binds, one or more sample compartments, an instructional material which describes performance of a method of the invention, a sample of normal cervical cells, a sample of cervical cancer cells, and the like.

The invention also includes a method of making an isolated hybridoma which produces an antibody useful for assessing whether a patient is afflicted with cervical cancer. In this method, a protein corresponding to a marker of the invention is isolated (e.g. by purification from a cell in which it is expressed or by transcription and translation of a nucleic acid encoding the protein *in vivo* or *in vitro* using known methods). A vertebrate, preferably a mammal such as a mouse, rat, rabbit, or sheep, is immunized using the isolated protein or protein fragment. The vertebrate may optionally (and preferably) be immunized at least one additional time with the isolated protein or protein fragment, so that the vertebrate exhibits a robust immune response to the protein or protein fragment. Splenocytes are isolated from the immunized vertebrate and fused with an immortalized cell line to form hybridomas, using any of a variety of methods well known in the art. Hybridomas formed in this manner are then screened

using standard methods to identify one or more hybridomas which produce an antibody which specifically binds with the protein or protein fragment. The invention also includes hybridomas made by this method and antibodies made using such hybridomas.

The invention also includes a method of assessing the efficacy of a test compound for inhibiting cervical cancer cells. As described above, differences in the level of expression of the markers of the invention correlate with the cancerous state of cervical cells. Although it is recognized that changes in the levels of expression of certain of the markers of the invention likely result from the cancerous state of cervical cells, it is likewise recognized that changes in the levels of expression of other of the markers of the invention induce, maintain, and promote the cancerous state of those cells. Thus, compounds which inhibit cervical cancer in a patient will cause the level of expression of one or more of the markers of the invention to change to a level nearer the normal level of expression for that marker (*i.e.* the level of expression for the marker in non-cancerous cervical cells).

This method thus comprises comparing expression of a marker in a first cervical cell sample and maintained in the presence of the test compound and expression of the marker in a second cervical cell sample and maintained in the absence of the test compound. A significant decrease in the level of expression of a marker listed within Tables 1-4 is an indication that the test compound inhibits cervical cancer. The cervical cell samples may, for example, be aliquots of a single sample of normal cervical cells obtained from a patient, pooled samples of normal cervical cells obtained from a patient, cells of a normal cervical cell line, aliquots of a single sample of cervical cancer cells obtained from a patient, pooled samples of cervical cancer cells obtained from a patient, cells of a cervical cancer cell line, or the like. In one embodiment, the samples are cervical cancer cells obtained from a patient and a plurality of compounds known to be effective for inhibiting various cervical cancers are tested in order to identify the compound which is likely to best inhibit the cervical cancer in the patient.

This method may likewise be used to assess the efficacy of a therapy for inhibiting cervical cancer in a patient. In this method, the level of expression of one or more markers of the invention in a pair of samples (one subjected to the therapy, the other not subjected to the therapy) is assessed. As with the method of assessing the efficacy of test compounds, if the therapy induces a significant decrease in the level of

expression of a marker listed within Tables 1-4, or blocks induction of a marker listed within Tables 1-4, then the therapy is efficacious for inhibiting cervical cancer. As above, if samples from a selected patient are used in this method, then alternative therapies can be assessed *in vitro* in order to select a therapy most likely to be
5 efficacious for inhibiting cervical cancer in the patient.

As described herein, cervical cancer in patients is associated with an increase in the level of expression of one or more markers listed within Tables 1-4. While, as discussed above, some of these changes in expression level result from occurrence of the cervical cancer, others of these changes induce, maintain, and promote the cancerous
10 state of cervical cancer cells. Thus, cervical cancer characterized by an increase in the level of expression of one or more markers listed within Tables 1-4 can be controlled or suppressed by inhibiting expression of those markers.

Expression of a marker listed within Tables 1-4 can be inhibited in a number of ways generally known in the art. For example, an antisense oligonucleotide can be
15 provided to the cervical cancer cells in order to inhibit transcription, translation, or both, of the marker(s). Alternately, a polynucleotide encoding an antibody, an antibody derivative, or an antibody fragment, and operably linked with an appropriate promoter/regulator region, can be provided to the cell in order to generate intracellular antibodies which will inhibit the function or activity of the protein corresponding to the
20 marker(s). Using the methods described herein, a variety of molecules, particularly including molecules sufficiently small that they are able to cross the cell membrane, can be screened in order to identify molecules which inhibit expression of the marker(s). The compound so identified can be provided to the patient in order to inhibit expression of the marker(s) in the cervical cancer cells of the patient.

25 As described above, the cancerous state of human cervical cells is correlated with changes in the levels of expression of the markers of the invention. Thus, compounds which induce increased expression of one or more of the markers listed within Tables 1-4 can induce cervical cell carcinogenesis. The invention thus includes a method for assessing the human cervical cell carcinogenic potential of a test compound.
30 This method comprises maintaining separate aliquots of human cervical cells in the presence and absence of the test compound. Expression of a marker of the invention in each of the aliquots is compared. A significant increase in the level of expression of a

marker listed within Tables 1-4 in the aliquot maintained in the presence of the test compound (relative to the aliquot maintained in the absence of the test compound) is an indication that the test compound possesses human cervical cell carcinogenic potential. The relative carcinogenic potentials of various test compounds can be assessed by
5 comparing the degree of enhancement or inhibition of the level of expression of the relevant markers, by comparing the number of markers for which the level of expression is enhanced or inhibited, or by comparing both.

Various aspects of the invention are described in further detail in the following subsections.

10

I. Isolated Nucleic Acid Molecules

One aspect of the invention pertains to novel isolated nucleic acid molecules that correspond to a marker of the invention, including nucleic acids which encode a polypeptide corresponding to a marker of the invention or a portion of such a
15 polypeptide. Isolated nucleic acids of the invention also include nucleic acid molecules sufficient for use as hybridization probes to identify nucleic acid molecules that correspond to a marker of the invention, including nucleic acids which encode a polypeptide corresponding to a marker of the invention, and fragments of such nucleic acid molecules, *e.g.*, those suitable for use as PCR primers for the amplification or
20 mutation of nucleic acid molecules. As used herein, the term "nucleic acid molecule" is intended to include DNA molecules (*e.g.*, cDNA or genomic DNA) and RNA molecules (*e.g.*, mRNA) and analogs of the DNA or RNA generated using nucleotide analogs. The nucleic acid molecule can be single-stranded or double-stranded, but preferably is double-stranded DNA.

25 An "isolated" nucleic acid molecule is one which is separated from other nucleic acid molecules which are present in the natural source of the nucleic acid molecule. Preferably, an "isolated" nucleic acid molecule is free of sequences (preferably protein-encoding sequences) which naturally flank the nucleic acid (*i.e.*, sequences located at the 5' and 3' ends of the nucleic acid) in the genomic DNA of the organism from which the
30 nucleic acid is derived. For example, in various embodiments, the isolated nucleic acid molecule can contain less than about 5 kB, 4 kB, 3 kB, 2 kB, 1 kB, 0.5 kB or 0.1 kB of nucleotide sequences which naturally flank the nucleic acid molecule in genomic DNA

of the cell from which the nucleic acid is derived. Moreover, an "isolated" nucleic acid molecule, such as a cDNA molecule, can be substantially free of other cellular material, or culture medium when produced by recombinant techniques, or substantially free of chemical precursors or other chemicals when chemically synthesized.

5 A nucleic acid molecule of the present invention, *e.g.*, a nucleic acid encoding a protein corresponding to a marker listed in Tables 1-4, can be isolated using standard molecular biology techniques and the sequence information described herein. Using all or a portion of such nucleic acid sequences, nucleic acid molecules of the invention can be isolated using standard hybridization and cloning techniques (*e.g.*, as described in
10 Sambrook *et al.*, ed., *Molecular Cloning: A Laboratory Manual*, 2nd ed., Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, 1989).

 A process for identifying a larger fragment or the full-length coding sequence of a marker of the present invention is thus also provided. Any conventional recombinant DNA techniques applicable for isolating polynucleotides may be employed. One such
15 method involves the 5'-RACE-PCR technique, in which the poly-A mRNA that contains the coding sequence of particular interest is first reverse transcribed with a 3'-primer comprising a sequence disclosed herein. The newly synthesized cDNA strand is then tagged with an anchor primer with a known sequence, which preferably contains a convenient cloning restriction site attached at the 5' end. The tagged cDNA is then
20 amplified with the 3'-primer (or a nested primer sharing sequence homology to the internal sequences of the coding region) and the 5'-anchor primer. The amplification may be conducted under conditions of various levels of stringency to optimize the amplification specificity. 5'-RACE-PCR can be readily performed using commercial kits (available from, *e.g.*, BRL Life Technologies Inc., Clontech) according to the
25 manufacturer's instructions.

 Isolating the complete coding sequence of a gene can also be carried out in a hybridization assay using a suitable probe. The probe preferably comprises at least 10 nucleotides, and more preferably exhibits sequence homology to the polynucleotides of the markers of the present invention. Other high throughput screens for cDNAs, such as
30 those involving gene chip technology, can also be employed in obtaining the complete cDNA sequence.

In addition, databases exist that reduce the complexity of ESTs by assembling contiguous EST sequences into tentative genes. For example, TIGR has assembled human ESTs into a database called THC for tentative human consensus sequences. The THC database allows for a more definitive assignment compared to ESTs alone.

- 5 Software programs exist (TIGR assembler and TIGEM EST assembly machine and contig assembly program (see Huang, X . , 1996, *Genomes* 33:21-23)) that allow for assembling ESTs into contiguous sequences from any organism.

Alternatively, mRNA from a sample preparation is used to construct cDNA library in the ZAP Express vector following the procedure described in Velculescu *et al.*, 1997, *Science* 270:484. The ZAP Express cDNA synthesis kit (Stratagene) is used
10 accordingly to the manufacturer's protocol. Plates containing 250 to 2000 plaques are hybridized as described in Rupert *et al.*, 1988, *Mol. Cell. Bio.* 8:3104 to oligonucleotide probes with the same conditions previously described for standard probes except that the hybridization temperature is reduced to a room temperature. Washes are performed in
15 6X standard-saline-citrate 0.1% SDS for 30 minutes at room temperature. The probes are labeled with ^{32}P -ATP through use of T4 polynucleotide kinase.

A partial cDNA (3' fragment) can be isolated by 3' directed PCR reaction. This procedure is a modification of the protocol described in Polyak *et al.*, 1997, *Nature* 389:300. Briefly, the procedure uses SAGE tags in PCR reaction such that the resultant
20 PCR product contains the SAGE tag of interest as well as additional cDNA, the length of which is defined by the position of the tag with respect to the 3' end of the cDNA. The cDNA product derived from such a transcript driven PCR reaction can be used for many applications.

RNA from a source to express the cDNA corresponding to a given tag is first
25 converted to double-stranded cDNA using any standard cDNA protocol. Similar conditions used to generate cDNA for SAGE library construction can be employed except that a modified oligo-dT primer is used to derive the first strand synthesis. For example, the oligonucleotide of composition 5'-B-TCC GGC GCG CCG TTT TCC CAG TCA CGA(30)-3', contains a poly-T stretch at the 3' end for hybridization and
30 priming from poly-A tails, an M13 priming site for use in subsequent PCR steps, a 5' Biotin label (B) for capture to streptavidin-coated magnetic beads, and an *AscI* restriction endonuclease site for releasing the cDNA from the streptavidin-coated magnetic beads.

- 30 -

Theoretically, any sufficiently-sized DNA region capable of hybridizing to a PCR primer can be used as well as any other 8 base pair recognizing endonuclease.

cDNA constructed utilizing this or similar modified oligo-dT primer is then processed as described in U.S. Patent No. 5,695,937 up until adapter ligation where only one adapter is ligated to the cDNA pool. After adapter ligation, the cDNA is released from the streptavidin-coated magnetic beads and is then used as a template for cDNA amplification.

Various PCR protocols can be employed using PCR priming sites within the 3' modified oligo-dT primer and the SAGE tag. The SAGE tag-derived PCR primer employed can be of varying length dictated by 5' extension of the tag into the adaptor sequence. cDNA products are now available for a variety of applications.

This technique can be further modified by: (1) altering the length and/or content of the modified oligo-dT primer; (2) ligating adaptors other than that previously employed within the SAGE protocol; (3) performing PCR from template retained on the streptavidin-coated magnetic beads; and (4) priming first strand cDNA synthesis with non-oligo-dT based primers.

Gene trapper technology can also be used. The reagents and manufacturer's instructions for this technology are commercially available from Life Technologies, Inc., Gaithersburg, Maryland. Briefly, a complex population of single-stranded phagemid DNA containing directional cDNA inserts is enriched for the target sequence by hybridization in solution to a biotinylated oligonucleotide probe complementary to the target sequence. The hybrids are captured on streptavidin-coated paramagnetic beads. A magnet retrieves the paramagnetic beads from the solution, leaving nonhybridized single-stranded DNAs behind. Subsequently, the captured single-stranded DNA target is released from the biotinylated oligonucleotide. After release, the cDNA clone is further enriched by using a nonbiotinylated target oligonucleotide to specifically prime conversion of the single-stranded DNA. Following transformation and plating, typically 20% to 100% of the colonies represent the cDNA clone of interest. To identify the desired cDNA clone, the colonies may be screened by colony hybridization using the ³²P-labeled oligonucleotide, or alternatively by DNA sequencing and alignment of all sequences obtained from numerous clones to determine a consensus sequence.

A nucleic acid molecule of the invention can be amplified using cDNA, mRNA, or genomic DNA as a template and appropriate oligonucleotide primers according to standard PCR amplification techniques. The nucleic acid so amplified can be cloned into an appropriate vector and characterized by DNA sequence analysis. Furthermore,
5 oligonucleotides corresponding to all or a portion of a nucleic acid molecule of the invention can be prepared by standard synthetic techniques, *e.g.*, using an automated DNA synthesizer.

In another preferred embodiment, an isolated nucleic acid molecule of the invention comprises a nucleic acid molecule which has a nucleotide sequence
10 complementary to the nucleotide sequence of a nucleic acid corresponding to a marker of the invention or to the nucleotide sequence of a nucleic acid encoding a protein which corresponds to a marker of the invention. A nucleic acid molecule which is complementary to a given nucleotide sequence is one which is sufficiently complementary to the given nucleotide sequence that it can hybridize to the given
15 nucleotide sequence thereby forming a stable duplex.

Moreover, a nucleic acid molecule of the invention can comprise only a portion of a nucleic acid sequence, wherein the full length nucleic acid sequence comprises a marker of the invention or which encodes a polypeptide corresponding to a marker of the invention. Such nucleic acids can be used, for example, as a probe or primer. The
20 probe/primer typically is used as one or more substantially purified oligonucleotides. The oligonucleotide typically comprises a region of nucleotide sequence that hybridizes under stringent conditions to at least about 7, preferably about 15, more preferably about 25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, or 400 or more consecutive nucleotides of a nucleic acid of the invention.

Probes based on the sequence of a nucleic acid molecule of the invention can be
25 used to detect transcripts or genomic sequences corresponding to one or more markers of the invention. The probe comprises a label group attached thereto, *e.g.*, a radioisotope, a fluorescent compound, an enzyme, or an enzyme co-factor. Such probes can be used as part of a diagnostic test kit for identifying cells or tissues which mis-
30 express the protein, such as by measuring levels of a nucleic acid molecule encoding the protein in a sample of cells from a subject, *e.g.*, detecting mRNA levels or determining whether a gene encoding the protein has been mutated or deleted.

The invention further encompasses nucleic acid molecules that differ, due to degeneracy of the genetic code, from the nucleotide sequence of nucleic acids encoding a protein which corresponds to a marker of the invention, and thus encode the same protein.

5 In addition to the nucleotide sequences described in the Tables, it will be appreciated by those skilled in the art that DNA sequence polymorphisms that lead to changes in the amino acid sequence can exist within a population (*e.g.*, the human population). Such genetic polymorphisms can exist among individuals within a population due to natural allelic variation. An allele is one of a group of genes which
10 occur alternatively at a given genetic locus. In addition, it will be appreciated that DNA polymorphisms that affect RNA expression levels can also exist that may affect the overall expression level of that gene (*e.g.*, by affecting regulation or degradation).

As used herein, the phrase "allelic variant" refers to a nucleotide sequence which occurs at a given locus or to a polypeptide encoded by the nucleotide sequence.

15 As used herein, the terms "gene" and "recombinant gene" refer to nucleic acid molecules comprising an open reading frame encoding a polypeptide corresponding to a marker of the invention. Such natural allelic variations can typically result in 0.1-0.5% variance in the nucleotide sequence of a given gene. Alternative alleles can be identified by sequencing the gene of interest in a number of different individuals. This can be
20 readily carried out by using hybridization probes to identify the same genetic locus in a variety of individuals. Any and all such nucleotide variations and resulting amino acid polymorphisms or variations that are the result of natural allelic variation and that do not alter the functional activity are intended to be within the scope of the invention.

In another embodiment, an isolated nucleic acid molecule of the invention is at
25 least 7, 15, 20, 25, 30, 40, 60, 80, 100, 150, 200, 250, 300, 350, 400, 450, 550, 650, 700, 800, 900, 1000, 1200, 1400, 1600, 1800, 2000, 2200, 2400, 2600, 2800, 3000, 3500, 4000, 4500, or more nucleotides in length and hybridizes under stringent conditions to a nucleic acid corresponding to a marker of the invention or to a nucleic acid encoding a protein corresponding to a marker of the invention. As used herein, the term "hybridizes
30 under stringent conditions" is intended to describe conditions for hybridization and washing under which nucleotide sequences at least 75% (80%, 85%, preferably 90%) identical to each other typically remain hybridized to each other. Such stringent

- 33 -

conditions are known to those skilled in the art and can be found in sections 6.3.1-6.3.6 of *Current Protocols in Molecular Biology*, John Wiley & Sons, N.Y. (1989). A preferred, non-limiting example of stringent hybridization conditions for annealing two single-stranded DNA each of which is at least about 100 bases in length and/or for
5 annealing a single-stranded DNA and a single-stranded RNA each of which is at least about 100 bases in length, are hybridization in 6X sodium chloride/sodium citrate (SSC) at about 45°C, followed by one or more washes in 0.2X SSC, 0.1% SDS at 50-65°C. Further preferred hybridization conditions are taught in Lockhart, *et al.*, *Nature Biotechnology*, Volume 14, 1996 August:1675-1680; Breslauer, *et al.*, *Proc. Natl. Acad. Sci. USA*, Volume 83, 1986 June: 3746-3750; Van Ness, *et al.*, *Nucleic Acids Research*,
10 Volume 19, No. 19, 1991 September: 5143-5151; McGraw, *et al.*, *BioTechniques*, Volume 8, No. 6 1990: 674-678; and Milner, *et al.*, *Nature Biotechnology*, Volume 15, 1997 June: 537-541, all expressly incorporated by reference.

In addition to naturally-occurring allelic variants of a nucleic acid molecule of
15 the invention that can exist in the population, the skilled artisan will further appreciate that sequence changes can be introduced by mutation thereby leading to changes in the amino acid sequence of the encoded protein, without altering the biological activity of the protein encoded thereby. For example, one can make nucleotide substitutions leading to amino acid substitutions at "non-essential" amino acid residues. A "non-
20 essential" amino acid residue is a residue that can be altered from the wild-type sequence without altering the biological activity, whereas an "essential" amino acid residue is required for biological activity. For example, amino acid residues that are not conserved or only semi-conserved among homologs of various species may be non-essential for activity and thus would be likely targets for alteration. Alternatively, amino
25 acid residues that are conserved among the homologs of various species (*e.g.*, murine and human) may be essential for activity and thus would not be likely targets for alteration.

Accordingly, another aspect of the invention pertains to nucleic acid molecules encoding a polypeptide of the invention that contain changes in amino acid residues that
30 are not essential for activity. Such polypeptides differ in amino acid sequence from the naturally-occurring proteins which correspond to the markers of the invention, yet retain biological activity. In one embodiment, such a protein has an amino acid sequence that

is at least about 40% identical, 50%, 60%, 70%, 80%, 90%, 95%, or 98% identical to the amino acid sequence of one of the proteins which correspond to the markers of the invention.

An isolated nucleic acid molecule encoding a variant protein can be created by introducing one or more nucleotide substitutions, additions or deletions into the nucleotide sequence of nucleic acids of the invention, such that one or more amino acid residue substitutions, additions, or deletions are introduced into the encoded protein. Mutations can be introduced by standard techniques, such as site-directed mutagenesis and PCR-mediated mutagenesis. Preferably, conservative amino acid substitutions are made at one or more predicted non-essential amino acid residues. A "conservative amino acid substitution" is one in which the amino acid residue is replaced with an amino acid residue having a similar side chain. Families of amino acid residues having similar side chains have been defined in the art. These families include amino acids with basic side chains (*e.g.*, lysine, arginine, histidine), acidic side chains (*e.g.*, aspartic acid, glutamic acid), uncharged polar side chains (*e.g.*, glycine, asparagine, glutamine, serine, threonine, tyrosine, cysteine), non-polar side chains (*e.g.*, alanine, valine, leucine, isoleucine, proline, phenylalanine, methionine, tryptophan), beta-branched side chains (*e.g.*, threonine, valine, isoleucine) and aromatic side chains (*e.g.*, tyrosine, phenylalanine, tryptophan, histidine). Alternatively, mutations can be introduced randomly along all or part of the coding sequence, such as by saturation mutagenesis, and the resultant mutants can be screened for biological activity to identify mutants that retain activity. Following mutagenesis, the encoded protein can be expressed recombinantly and the activity of the protein can be determined.

The present invention encompasses antisense nucleic acid molecules, *i.e.*, molecules which are complementary to a sense nucleic acid of the invention, *e.g.*, complementary to the coding strand of a double-stranded cDNA molecule corresponding to a marker of the invention or complementary to an mRNA sequence corresponding to a marker of the invention. Accordingly, an antisense nucleic acid of the invention can hydrogen bond to (*i.e.* anneal with) a sense nucleic acid of the invention. The antisense nucleic acid can be complementary to an entire coding strand, or to only a portion thereof, *e.g.*, all or part of the protein coding region (or open reading frame). An antisense nucleic acid molecule can also be antisense to all or part of a non-

coding region of the coding strand of a nucleotide sequence encoding a polypeptide of the invention. The non-coding regions ("5' and 3' untranslated regions") are the 5' and 3' sequences which flank the coding region and are not translated into amino acids.

An antisense oligonucleotide can be, for example, about 5, 10, 15, 20, 25, 30, 35, 40, 45, or 50 or more nucleotides in length. An antisense nucleic acid of the invention can be constructed using chemical synthesis and enzymatic ligation reactions using procedures known in the art. For example, an antisense nucleic acid (*e.g.*, an antisense oligonucleotide) can be chemically synthesized using naturally occurring nucleotides or variously modified nucleotides designed to increase the biological stability of the molecules or to increase the physical stability of the duplex formed between the antisense and sense nucleic acids, *e.g.*, phosphorothioate derivatives and acridine substituted nucleotides can be used. Examples of modified nucleotides which can be used to generate the antisense nucleic acid include 5-fluorouracil, 5-bromouracil, 5-chlorouracil, 5-iodouracil, hypoxanthine, xanthine, 4-acetylcytosine, 5-(carboxyhydroxymethyl) uracil, 5-carboxymethylaminomethyl-2-thiouridine, 5-carboxymethylaminomethyluracil, dihydrouracil, beta-D-galactosylqueosine, inosine, N6-isopentenyladenine, 1-methylguanine, 1-methylinosine, 2,2-dimethylguanine, 2-methyladenine, 2-methylguanine, 3-methylcytosine, 5-methylcytosine, N6-adenine, 7-methylguanine, 5-methylaminomethyluracil, 5-methoxyaminomethyl-2-thiouracil, beta-D-mannosylqueosine, 5'-methoxycarboxymethyluracil, 5-methoxyuracil, 2-methylthio-N6-isopentenyladenine, uracil-5-oxyacetic acid (v), wybutoxosine, pseudouracil, queosine, 2-thiocytosine, 5-methyl-2-thiouracil, 2-thiouracil, 4-thiouracil, 5-methyluracil, uracil-5-oxyacetic acid methylester, uracil-5-oxyacetic acid (v), 5-methyl-2-thiouracil, 3-(3-amino-3-N-2-carboxypropyl) uracil, (acp3)w, and 2,6-diaminopurine. Alternatively, the antisense nucleic acid can be produced biologically using an expression vector into which a nucleic acid has been sub-cloned in an antisense orientation (*i.e.*, RNA transcribed from the inserted nucleic acid will be of an antisense orientation to a target nucleic acid of interest, described further in the following subsection).

The antisense nucleic acid molecules of the invention are typically administered to a subject or generated *in situ* such that they hybridize with or bind to cellular mRNA and/or genomic DNA encoding a polypeptide corresponding to a selected marker of the

invention to thereby inhibit expression of the marker, *e.g.*, by inhibiting transcription and/or translation. The hybridization can be by conventional nucleotide complementarity to form a stable duplex, or, for example, in the case of an antisense nucleic acid molecule which binds to DNA duplexes, through specific interactions in the major groove of the double helix. Examples of a route of administration of antisense nucleic acid molecules of the invention includes direct injection at a tissue site or infusion of the antisense nucleic acid into a cervix-associated body fluid. Alternatively, antisense nucleic acid molecules can be modified to target selected cells and then administered systemically. For example, for systemic administration, antisense molecules can be modified such that they specifically bind to receptors or antigens expressed on a selected cell surface, *e.g.*, by linking the antisense nucleic acid molecules to peptides or antibodies which bind to cell surface receptors or antigens. The antisense nucleic acid molecules can also be delivered to cells using the vectors described herein. To achieve sufficient intracellular concentrations of the antisense molecules, vector constructs in which the antisense nucleic acid molecule is placed under the control of a strong pol II or pol III promoter are preferred.

An antisense nucleic acid molecule of the invention can be an α -anomeric nucleic acid molecule. An α -anomeric nucleic acid molecule forms specific double-stranded hybrids with complementary RNA in which, contrary to the usual α -units, the strands run parallel to each other (Gaultier *et al.*, 1987, *Nucleic Acids Res.* 15:6625-6641). The antisense nucleic acid molecule can also comprise a 2'-*o*-methylribonucleotide (Inoue *et al.*, 1987, *Nucleic Acids Res.* 15:6131-6148) or a chimeric RNA-DNA analogue (Inoue *et al.*, 1987, *FEBS Lett.* 215:327-330).

The invention also encompasses ribozymes. Ribozymes are catalytic RNA molecules with ribonuclease activity which are capable of cleaving a single-stranded nucleic acid, such as an mRNA, to which they have a complementary region. Thus, ribozymes (*e.g.*, hammerhead ribozymes as described in Haselhoff and Gerlach, 1988, *Nature* 334:585-591) can be used to catalytically cleave mRNA transcripts to thereby inhibit translation of the protein encoded by the mRNA. A ribozyme having specificity for a nucleic acid molecule encoding a polypeptide corresponding to a marker of the invention can be designed based upon the nucleotide sequence of a cDNA corresponding to the marker. For example, a derivative of a *Tetrahymena* L-19 IVS

- 37 -

RNA can be constructed in which the nucleotide sequence of the active site is complementary to the nucleotide sequence to be cleaved (see Cech *et al.* U.S. Patent No. 4,987,071; and Cech *et al.* U.S. Patent No. 5,116,742). Alternatively, an mRNA encoding a polypeptide of the invention can be used to select a catalytic RNA having a specific ribonuclease activity from a pool of RNA molecules (see, *e.g.*, Bartel and Szostak, 1993, *Science* 261:1411-1418).

The invention also encompasses nucleic acid molecules which form triple helical structures. For example, expression of a polypeptide of the invention can be inhibited by targeting nucleotide sequences complementary to the regulatory region of the gene encoding the polypeptide (*e.g.*, the promoter and/or enhancer) to form triple helical structures that prevent transcription of the gene in target cells. See generally Helene (1991) *Anticancer Drug Des.* 6(6):569-84; Helene (1992) *Ann. N.Y. Acad. Sci.* 660:27-36; and Maher (1992) *Bioassays* 14(12):807-15.

In various embodiments, the nucleic acid molecules of the invention can be modified at the base moiety, sugar moiety or phosphate backbone to improve, *e.g.*, the stability, hybridization, or solubility of the molecule. For example, the deoxyribose phosphate backbone of the nucleic acids can be modified to generate peptide nucleic acids (see Hyrup *et al.*, 1996, *Bioorganic & Medicinal Chemistry* 4(1): 5-23). As used herein, the terms "peptide nucleic acids" or "PNAs" refer to nucleic acid mimics, *e.g.*, DNA mimics, in which the deoxyribose phosphate backbone is replaced by a pseudopeptide backbone and only the four natural nucleobases are retained. The neutral backbone of PNAs has been shown to allow for specific hybridization to DNA and RNA under conditions of low ionic strength. The synthesis of PNA oligomers can be performed using standard solid phase peptide synthesis protocols as described in Hyrup *et al.* (1996), *supra*; Perry-O'Keefe *et al.* (1996) *Proc. Natl. Acad. Sci. USA* 93:14670-675.

PNAs can be used in therapeutic and diagnostic applications. For example, PNAs can be used as antisense or antigene agents for sequence-specific modulation of gene expression by, *e.g.*, inducing transcription or translation arrest or inhibiting replication. PNAs can also be used, *e.g.*, in the analysis of single base pair mutations in a gene by, *e.g.*, PNA directed PCR clamping; as artificial restriction enzymes when used in combination with other enzymes, *e.g.*, S1 nucleases (Hyrup (1996), *supra*; or as

probes or primers for DNA sequence and hybridization (Hyrup, 1996, *supra*; Perry-O'Keefe *et al.*, 1996, *Proc. Natl. Acad. Sci. USA* 93:14670-675).

In another embodiment, PNAs can be modified, *e.g.*, to enhance their stability or cellular uptake, by attaching lipophilic or other helper groups to PNA, by the formation
5 of PNA-DNA chimeras, or by the use of liposomes or other techniques of drug delivery known in the art. For example, PNA-DNA chimeras can be generated which can combine the advantageous properties of PNA and DNA. Such chimeras allow DNA recognition enzymes, *e.g.*, RNASE H and DNA polymerases, to interact with the DNA portion while the PNA portion would provide high binding affinity and specificity.
10 PNA-DNA chimeras can be linked using linkers of appropriate lengths selected in terms of base stacking, number of bonds between the nucleobases, and orientation (Hyrup, 1996, *supra*). The synthesis of PNA-DNA chimeras can be performed as described in Hyrup (1996), *supra*, and Finn *et al.* (1996) *Nucleic Acids Res.* 24(17):3357-63. For example, a DNA chain can be synthesized on a solid support using standard
15 phosphoramidite coupling chemistry and modified nucleoside analogs. Compounds such as 5'-(4-methoxytrityl)amino-5'-deoxy-thymidine phosphoramidite can be used as a link between the PNA and the 5' end of DNA (Mag *et al.*, 1989, *Nucleic Acids Res.* 17:5973-88). PNA monomers are then coupled in a step-wise manner to produce a chimeric molecule with a 5' PNA segment and a 3' DNA segment (Finn *et al.*, 1996,
20 *Nucleic Acids Res.* 24(17):3357-63). Alternatively, chimeric molecules can be synthesized with a 5' DNA segment and a 3' PNA segment (Peterser *et al.*, 1975, *Bioorganic Med. Chem. Lett.* 5:1119-11124).

In other embodiments, the oligonucleotide can include other appended groups such as peptides (*e.g.*, for targeting host cell receptors *in vivo*), or agents facilitating
25 transport across the cell membrane (see, *e.g.*, Letsinger *et al.*, 1989, *Proc. Natl. Acad. Sci. USA* 86:6553-6556; Lemaitre *et al.*, 1987, *Proc. Natl. Acad. Sci. USA* 84:648-652; PCT Publication No. WO 88/09810) or the blood-brain barrier (see, *e.g.*, PCT Publication No. WO 89/10134). In addition, oligonucleotides can be modified with hybridization-triggered cleavage agents (see, *e.g.*, Krol *et al.*, 1988, *Bio/Techniques*
30 6:958-976) or intercalating agents (see, *e.g.*, Zon, 1988, *Pharm. Res.* 5:539-549). To this end, the oligonucleotide can be conjugated to another molecule, *e.g.*, a peptide,

- 39 -

hybridization triggered cross-linking agent, transport agent, hybridization-triggered cleavage agent, etc.

The invention also includes molecular beacon nucleic acids having at least one region which is complementary to a nucleic acid of the invention, such that the molecular beacon is useful for quantitating the presence of the nucleic acid of the invention in a sample. A "molecular beacon" nucleic acid is a nucleic acid comprising a pair of complementary regions and having a fluorophore and a fluorescent quencher associated therewith. The fluorophore and quencher are associated with different portions of the nucleic acid in such an orientation that when the complementary regions are annealed with one another, fluorescence of the fluorophore is quenched by the quencher. When the complementary regions of the nucleic acid are not annealed with one another, fluorescence of the fluorophore is quenched to a lesser degree. Molecular beacon nucleic acids are described, for example, in U.S. Patent 5,876,930.

15 II. Isolated Proteins and Antibodies

One aspect of the invention pertains to novel isolated proteins which correspond to individual markers of the invention, and biologically active portions thereof, as well as polypeptide fragments suitable for use as immunogens to raise antibodies directed against a polypeptide corresponding to a marker of the invention. In one embodiment, the native polypeptide corresponding to a marker can be isolated from cells or tissue sources by an appropriate purification scheme using standard protein purification techniques. In another embodiment, polypeptides corresponding to a marker of the invention are produced by recombinant DNA techniques. Alternative to recombinant expression, a polypeptide corresponding to a marker of the invention can be synthesized chemically using standard peptide synthesis techniques.

An "isolated" or "purified" protein or biologically active portion thereof is substantially free of cellular material or other contaminating proteins from the cell or tissue source from which the protein is derived, or substantially free of chemical precursors or other chemicals when chemically synthesized. The language "substantially free of cellular material" includes preparations of protein in which the protein is separated from cellular components of the cells from which it is isolated or recombinantly produced. Thus, protein that is substantially free of cellular material

- 40 -

includes preparations of protein having less than about 30%, 20%, 10%, or 5% (by dry weight) of heterologous protein (also referred to herein as a "contaminating protein"). When the protein or biologically active portion thereof is recombinantly produced, it is also preferably substantially free of culture medium, *i.e.*, culture medium represents less than about 20%, 10%, or 5% of the volume of the protein preparation. When the protein is produced by chemical synthesis, it is preferably substantially free of chemical precursors or other chemicals, *i.e.*, it is separated from chemical precursors or other chemicals which are involved in the synthesis of the protein. Accordingly such preparations of the protein have less than about 30%, 20%, 10%, 5% (by dry weight) of chemical precursors or compounds other than the polypeptide of interest.

Biologically active portions of a polypeptide corresponding to a marker of the invention include polypeptides comprising amino acid sequences sufficiently identical to or derived from the amino acid sequence of the protein corresponding to the marker (*e.g.*, the amino acid sequence listed in the GenBank and IMAGE Consortium database records described herein), which include fewer amino acids than the full length protein, and exhibit at least one activity of the corresponding full-length protein. Typically, biologically active portions comprise a domain or motif with at least one activity of the corresponding protein. A biologically active portion of a protein of the invention can be a polypeptide which is, for example, 10, 25, 50, 100 or more amino acids in length. Moreover, other biologically active portions, in which other regions of the protein are deleted, can be prepared by recombinant techniques and evaluated for one or more of the functional activities of the native form of a polypeptide of the invention.

Preferred polypeptides are encoded by the nucleotide sequences in Tables 1-4. Other useful proteins are substantially identical (*e.g.*, at least about 40%, preferably 50%, 60%, 70%, 80%, 90%, 95%, or 99%) to one of these sequences and retain the functional activity of the protein of the corresponding naturally-occurring protein yet differ in amino acid sequence due to natural allelic variation or mutagenesis.

To determine the percent identity of two amino acid sequences or of two nucleic acids, the sequences are aligned for optimal comparison purposes (*e.g.*, gaps can be introduced in the sequence of a first amino acid or nucleic acid sequence for optimal alignment with a second amino or nucleic acid sequence). The amino acid residues or nucleotides at corresponding amino acid positions or nucleotide positions are then

compared. When a position in the first sequence is occupied by the same amino acid residue or nucleotide as the corresponding position in the second sequence, then the molecules are identical at that position. The percent identity between the two sequences is a function of the number of identical positions shared by the sequences (*i.e.*, % identity = # of identical positions/total # of positions (*e.g.*, overlapping positions) $\times 100$).
5 In one embodiment the two sequences are the same length.

The determination of percent identity between two sequences can be accomplished using a mathematical algorithm. A preferred, non-limiting example of a mathematical algorithm utilized for the comparison of two sequences is the algorithm of
10 Karlin and Altschul (1990) *Proc. Natl. Acad. Sci. USA* 87:2264-2268, modified as in Karlin and Altschul (1993) *Proc. Natl. Acad. Sci. USA* 90:5873-5877. Such an algorithm is incorporated into the NBLAST and XBLAST programs of Altschul, *et al.* (1990) *J. Mol. Biol.* 215:403-410. BLAST nucleotide searches can be performed with the NBLAST program, score = 100, wordlength = 12 to obtain nucleotide sequences
15 homologous to a nucleic acid molecules of the invention. BLAST protein searches can be performed with the XBLAST program, score = 50, wordlength = 3 to obtain amino acid sequences homologous to a protein molecules of the invention. To obtain gapped alignments for comparison purposes, Gapped BLAST can be utilized as described in Altschul *et al.* (1997) *Nucleic Acids Res.* 25:3389-3402. Alternatively, PSI-Blast can be
20 used to perform an iterated search which detects distant relationships between molecules. When utilizing BLAST, Gapped BLAST, and PSI-Blast programs, the default parameters of the respective programs (*e.g.*, XBLAST and NBLAST) can be used. See <http://www.ncbi.nlm.nih.gov>. Another preferred, non-limiting example of a mathematical algorithm utilized for the comparison of sequences is the algorithm of
25 Myers and Miller, (1988) *CABIOS* 4:11-17. Such an algorithm is incorporated into the ALIGN program (version 2.0) which is part of the GCG sequence alignment software package. When utilizing the ALIGN program for comparing amino acid sequences, a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4 can be used. Yet another useful algorithm for identifying regions of local sequence similarity
30 and alignment is the FASTA algorithm as described in Pearson and Lipman (1988) *Proc. Natl. Acad. Sci. USA* 85:2444-2448. When using the FASTA algorithm for

comparing nucleotide or amino acid sequences, a PAM120 weight residue table can, for example, be used with a k -tuple value of 2.

The percent identity between two sequences can be determined using techniques similar to those described above, with or without allowing gaps. In calculating percent
5 identity, only exact matches are counted.

The invention also provides chimeric or fusion proteins corresponding to a marker of the invention. As used herein, a "chimeric protein" or "fusion protein" comprises all or part (preferably a biologically active part) of a polypeptide corresponding to a marker of the invention operably linked to a heterologous
10 polypeptide (*i.e.*, a polypeptide other than the polypeptide corresponding to the marker). Within the fusion protein, the term "operably linked" is intended to indicate that the polypeptide of the invention and the heterologous polypeptide are fused in-frame to each other. The heterologous polypeptide can be fused to the amino-terminus or the carboxyl-terminus of the polypeptide of the invention.

15 One useful fusion protein is a GST fusion protein in which a polypeptide corresponding to a marker of the invention is fused to the carboxyl terminus of GST sequences. Such fusion proteins can facilitate the purification of a recombinant polypeptide of the invention.

In another embodiment, the fusion protein contains a heterologous signal
20 sequence at its amino terminus. For example, the native signal sequence of a polypeptide corresponding to a marker of the invention can be removed and replaced with a signal sequence from another protein. For example, the gp67 secretory sequence of the baculovirus envelope protein can be used as a heterologous signal sequence (Ausubel *et al.*, ed., *Current Protocols in Molecular Biology*, John Wiley & Sons, NY,
25 1992). Other examples of eukaryotic heterologous signal sequences include the secretory sequences of melittin and human placental alkaline phosphatase (Stratagene; La Jolla, California). In yet another example, useful prokaryotic heterologous signal sequences include the phoA secretory signal (Sambrook *et al.*, *supra*) and the protein A secretory signal (Pharmacia Biotech; Piscataway, New Jersey).

30 In yet another embodiment, the fusion protein is an immunoglobulin fusion protein in which all or part of a polypeptide corresponding to a marker of the invention is fused to sequences derived from a member of the immunoglobulin protein family.

The immunoglobulin fusion proteins of the invention can be incorporated into pharmaceutical compositions and administered to a subject to inhibit an interaction between a ligand (soluble or membrane-bound) and a protein on the surface of a cell (receptor), to thereby suppress signal transduction *in vivo*. The immunoglobulin fusion protein can be used to affect the bioavailability of a cognate ligand of a polypeptide of the invention. Inhibition of ligand/receptor interaction can be useful therapeutically, both for treating proliferative and differentiative disorders and for modulating (*e.g.* promoting or inhibiting) cell survival. Moreover, the immunoglobulin fusion proteins of the invention can be used as immunogens to produce antibodies directed against a polypeptide of the invention in a subject, to purify ligands and in screening assays to identify molecules which inhibit the interaction of receptors with ligands.

Chimeric and fusion proteins of the invention can be produced by standard recombinant DNA techniques. In another embodiment, the fusion gene can be synthesized by conventional techniques including automated DNA synthesizers. Alternatively, PCR amplification of gene fragments can be carried out using anchor primers which give rise to complementary overhangs between two consecutive gene fragments which can subsequently be annealed and re-amplified to generate a chimeric gene sequence (see, *e.g.*, Ausubel *et al.*, *supra*). Moreover, many expression vectors are commercially available that already encode a fusion moiety (*e.g.*, a GST polypeptide). A nucleic acid encoding a polypeptide of the invention can be cloned into such an expression vector such that the fusion moiety is linked in-frame to the polypeptide of the invention.

A signal sequence can be used to facilitate secretion and isolation of the secreted protein or other proteins of interest. Signal sequences are typically characterized by a core of hydrophobic amino acids which are generally cleaved from the mature protein during secretion in one or more cleavage events. Such signal peptides contain processing sites that allow cleavage of the signal sequence from the mature proteins as they pass through the secretory pathway. Thus, the invention pertains to the described polypeptides having a signal sequence, as well as to polypeptides from which the signal sequence has been proteolytically cleaved (*i.e.*, the cleavage products). In one embodiment, a nucleic acid sequence encoding a signal sequence can be operably linked in an expression vector to a protein of interest, such as a protein which is ordinarily not

- 44 -

secreted or is otherwise difficult to isolate. The signal sequence directs secretion of the protein, such as from a eukaryotic host into which the expression vector is transformed, and the signal sequence is subsequently or concurrently cleaved. The protein can then be readily purified from the extracellular medium by art recognized methods.

- 5 Alternatively, the signal sequence can be linked to the protein of interest using a sequence which facilitates purification, such as with a GST domain.

The present invention also pertains to variants of the polypeptides corresponding to individual markers of the invention. Such variants have an altered amino acid sequence which can function as either agonists (mimetics) or as antagonists. Variants
10 can be generated by mutagenesis, *e.g.*, discrete point mutation or truncation. An agonist can retain substantially the same, or a subset, of the biological activities of the naturally occurring form of the protein. An antagonist of a protein can inhibit one or more of the activities of the naturally occurring form of the protein by, for example, competitively binding to a downstream or upstream member of a cellular signaling cascade which
15 includes the protein of interest. Thus, specific biological effects can be elicited by treatment with a variant of limited function. Treatment of a subject with a variant having a subset of the biological activities of the naturally occurring form of the protein can have fewer side effects in a subject relative to treatment with the naturally occurring form of the protein.

20 Variants of a protein of the invention which function as either agonists (mimetics) or as antagonists can be identified by screening combinatorial libraries of mutants, *e.g.*, truncation mutants, of the protein of the invention for agonist or antagonist activity. In one embodiment, a variegated library of variants is generated by combinatorial mutagenesis at the nucleic acid level and is encoded by a variegated gene
25 library. A variegated library of variants can be produced by, for example, enzymatically ligating a mixture of synthetic oligonucleotides into gene sequences such that a degenerate set of potential protein sequences is expressible as individual polypeptides, or alternatively, as a set of larger fusion proteins (*e.g.*, for phage display). There are a variety of methods which can be used to produce libraries of potential variants of the
30 polypeptides of the invention from a degenerate oligonucleotide sequence. Methods for synthesizing degenerate oligonucleotides are known in the art (see, *e.g.*, Narang, 1983,

Tetrahedron 39:3; Itakura *et al.*, 1984, *Annu. Rev. Biochem.* 53:323; Itakura *et al.*, 1984, *Science* 198:1056; Ike *et al.*, 1983 *Nucleic Acid Res.* 11:477).

In addition, libraries of fragments of the coding sequence of a polypeptide corresponding to a marker of the invention can be used to generate a variegated
5 population of polypeptides for screening and subsequent selection of variants. For example, a library of coding sequence fragments can be generated by treating a double stranded PCR fragment of the coding sequence of interest with a nuclease under conditions wherein nicking occurs only about once per molecule, denaturing the double stranded DNA, renaturing the DNA to form double stranded DNA which can include
10 sense/antisense pairs from different nicked products, removing single stranded portions from reformed duplexes by treatment with S1 nuclease, and ligating the resulting fragment library into an expression vector. By this method, an expression library can be derived which encodes amino terminal and internal fragments of various sizes of the protein of interest.

15 Several techniques are known in the art for screening gene products of combinatorial libraries made by point mutations or truncation, and for screening cDNA libraries for gene products having a selected property. The most widely used techniques, which are amenable to high through-put analysis, for screening large gene libraries typically include cloning the gene library into replicable expression vectors, transforming appropriate cells with the resulting library of vectors, and expressing the
20 combinatorial genes under conditions in which detection of a desired activity facilitates isolation of the vector encoding the gene whose product was detected. Recursive ensemble mutagenesis (REM), a technique which enhances the frequency of functional mutants in the libraries, can be used in combination with the screening assays to identify
25 variants of a protein of the invention (Arkin and Yourvan, 1992, *Proc. Natl. Acad. Sci. USA* 89:7811-7815; Delgrave *et al.*, 1993, *Protein Engineering* 6(3):327- 331).

An isolated polypeptide corresponding to a marker of the invention, or a fragment thereof, can be used as an immunogen to generate antibodies using standard techniques for polyclonal and monoclonal antibody preparation. The full-length
30 polypeptide or protein can be used or, alternatively, the invention provides antigenic peptide fragments for use as immunogens. The antigenic peptide of a protein of the invention comprises at least 8 (preferably 10, 15, 20, or 30 or more) amino acid residues

of the amino acid sequence of one of the polypeptides of the invention, and encompasses an epitope of the protein such that an antibody raised against the peptide forms a specific immune complex with a marker of the invention to which the protein corresponds.

Preferred epitopes encompassed by the antigenic peptide are regions that are located on the surface of the protein, *e.g.*, hydrophilic regions. Hydrophobicity sequence analysis, hydrophilicity sequence analysis, or similar analyses can be used to identify hydrophilic regions.

An immunogen typically is used to prepare antibodies by immunizing a suitable (*i.e.* immunocompetent) subject such as a rabbit, goat, mouse, or other mammal or vertebrate. An appropriate immunogenic preparation can contain, for example, recombinantly-expressed or chemically-synthesized polypeptide. The preparation can further include an adjuvant, such as Freund's complete or incomplete adjuvant, or a similar immunostimulatory agent.

Accordingly, another aspect of the invention pertains to antibodies directed against a polypeptide of the invention. The terms "antibody" and "antibody substance" as used interchangeably herein refer to immunoglobulin molecules and immunologically active portions of immunoglobulin molecules, *i.e.*, molecules that contain an antigen binding site which specifically binds an antigen, such as a polypeptide of the invention, *e.g.*, an epitope of a polypeptide of the invention. A molecule which specifically binds to a given polypeptide of the invention is a molecule which binds the polypeptide, but does not substantially bind other molecules in a sample, *e.g.*, a biological sample, which naturally contains the polypeptide. Examples of immunologically active portions of immunoglobulin molecules include F(ab) and F(ab')₂ fragments which can be generated by treating the antibody with an enzyme such as pepsin. The invention provides polyclonal and monoclonal antibodies. The term "monoclonal antibody" or "monoclonal antibody composition", as used herein, refers to a population of antibody molecules that contain only one species of an antigen binding site capable of immunoreacting with a particular epitope.

Polyclonal antibodies can be prepared as described above by immunizing a suitable subject with a polypeptide of the invention as an immunogen. Preferred polyclonal antibody compositions are ones that have been selected for antibodies directed against a polypeptide or polypeptides of the invention. Particularly preferred

polyclonal antibody preparations are ones that contain only antibodies directed against a polypeptide or polypeptides of the invention. Particularly preferred immunogen compositions are those that contain no other human proteins such as, for example, immunogen compositions made using a non-human host cell for recombinant expression
5 of a polypeptide of the invention. In such a manner, the only human epitope or epitopes recognized by the resulting antibody compositions raised against this immunogen will be present as part of a polypeptide or polypeptides of the invention.

The antibody titer in the immunized subject can be monitored over time by standard techniques, such as with an enzyme linked immunosorbent assay (ELISA)
10 using immobilized polypeptide. If desired, the antibody molecules can be harvested or isolated from the subject (*e.g.*, from the blood or serum of the subject) and further purified by well-known techniques, such as protein A chromatography to obtain the IgG fraction. Alternatively, antibodies specific for a protein or polypeptide of the invention can be selected or (*e.g.*, partially purified) or purified by, *e.g.*, affinity chromatography.
15 For example, a recombinantly expressed and purified (or partially purified) protein of the invention is produced as described herein, and covalently or non-covalently coupled to a solid support such as, for example, a chromatography column. The column can then be used to affinity purify antibodies specific for the proteins of the invention from a sample containing antibodies directed against a large number of different epitopes,
20 thereby generating a substantially purified antibody composition, *i.e.*, one that is substantially free of contaminating antibodies. By a substantially purified antibody composition is meant, in this context, that the antibody sample contains at most only 30% (by dry weight) of contaminating antibodies directed against epitopes other than those of the desired protein or polypeptide of the invention, and preferably at most 20%,
25 yet more preferably at most 10%, and most preferably at most 5% (by dry weight) of the sample is contaminating antibodies. A purified antibody composition means that at least 99% of the antibodies in the composition are directed against the desired protein or polypeptide of the invention.

At an appropriate time after immunization, *e.g.*, when the specific antibody titers
30 are highest, antibody-producing cells can be obtained from the subject and used to prepare monoclonal antibodies by standard techniques, such as the hybridoma technique originally described by Kohler and Milstein (1975) *Nature* 256:495-497, the human B

cell hybridoma technique (see Kozbor *et al.*, 1983, *Immunol. Today* 4:72), the EBV-hybridoma technique (see Cole *et al.*, pp. 77-96 In *Monoclonal Antibodies and Cancer Therapy*, Alan R. Liss, Inc., 1985) or trioma techniques. The technology for producing hybridomas is well known (see generally *Current Protocols in Immunology*, Coligan *et al.* ed., John Wiley & Sons, New York, 1994). Hybridoma cells producing a monoclonal antibody of the invention are detected by screening the hybridoma culture supernatants for antibodies that bind the polypeptide of interest, *e.g.*, using a standard ELISA assay.

Alternative to preparing monoclonal antibody-secreting hybridomas, a monoclonal antibody directed against a polypeptide of the invention can be identified and isolated by screening a recombinant combinatorial immunoglobulin library (*e.g.*, an antibody phage display library) with the polypeptide of interest. Kits for generating and screening phage display libraries are commercially available (*e.g.*, the Pharmacia *Recombinant Phage Antibody System*, Catalog No. 27-9400-01; and the Stratagene *SurfZAP Phage Display Kit*, Catalog No. 240612). Additionally, examples of methods and reagents particularly amenable for use in generating and screening antibody display library can be found in, for example, U.S. Patent No. 5,223,409; PCT Publication No. WO 92/18619; PCT Publication No. WO 91/17271; PCT Publication No. WO 92/20791; PCT Publication No. WO 92/15679; PCT Publication No. WO 93/01288; PCT Publication No. WO 92/01047; PCT Publication No. WO 92/09690; PCT Publication No. WO 90/02809; Fuchs *et al.* (1991) *Bio/Technology* 9:1370-1372; Hay *et al.* (1992) *Hum. Antibod. Hybridomas* 3:81-85; Huse *et al.* (1989) *Science* 246:1275-1281; Griffiths *et al.* (1993) *EMBO J.* 12:725-734.

Additionally, recombinant antibodies, such as chimeric and humanized monoclonal antibodies, comprising both human and non-human portions, which can be made using standard recombinant DNA techniques, are within the scope of the invention. A chimeric antibody is a molecule in which different portions are derived from different animal species, such as those having a variable region derived from a murine mAb and a human immunoglobulin constant region. (See, *e.g.*, Cabilly *et al.*, U.S. Patent No. 4,816,567; and Boss *et al.*, U.S. Patent No. 4,816,397, which are incorporated herein by reference in their entirety.) Humanized antibodies are antibody molecules from non-human species having one or more complementarily determining

regions (CDRs) from the non-human species and a framework region from a human immunoglobulin molecule. (See, *e.g.*, Queen, U.S. Patent No. 5,585,089, which is incorporated herein by reference in its entirety.) Such chimeric and humanized monoclonal antibodies can be produced by recombinant DNA techniques known in the art, for example using methods described in PCT Publication No. WO 87/02671; European Patent Application 184,187; European Patent Application 171,496; European Patent Application 173,494; PCT Publication No. WO 86/01533; U.S. Patent No. 4,816,567; European Patent Application 125,023; Better *et al.* (1988) *Science* 240:1041-1043; Liu *et al.* (1987) *Proc. Natl. Acad. Sci. USA* 84:3439-3443; Liu *et al.* (1987) *J. Immunol.* 139:3521-3526; Sun *et al.* (1987) *Proc. Natl. Acad. Sci. USA* 84:214-218; Nishimura *et al.* (1987) *Cancer Res.* 47:999-1005; Wood *et al.* (1985) *Nature* 314:446-449; and Shaw *et al.* (1988) *J. Natl. Cancer Inst.* 80:1553-1559; Morrison (1985) *Science* 229:1202-1207; Oi *et al.* (1986) *Bio/Techniques* 4:214; U.S. Patent 5,225,539; Jones *et al.* (1986) *Nature* 321:552-525; Verhoeyan *et al.* (1988) *Science* 239:1534; and Beidler *et al.* (1988) *J. Immunol.* 141:4053-4060.

Antibodies of the invention may be used as therapeutic agents in treating cancers. In a preferred embodiment, completely human antibodies of the invention are used for therapeutic treatment of human cancer patients, particularly those having cervical cancer. Such antibodies can be produced, for example, using transgenic mice which are incapable of expressing endogenous immunoglobulin heavy and light chain genes, but which can express human heavy and light chain genes. The transgenic mice are immunized in the normal fashion with a selected antigen, *e.g.*, all or a portion of a polypeptide corresponding to a marker of the invention. Monoclonal antibodies directed against the antigen can be obtained using conventional hybridoma technology. The human immunoglobulin transgenes harbored by the transgenic mice rearrange during B cell differentiation, and subsequently undergo class switching and somatic mutation. Thus, using such a technique, it is possible to produce therapeutically useful IgG, IgA and IgE antibodies. For an overview of this technology for producing human antibodies, see Lonberg and Huszar (1995) *Int. Rev. Immunol.* 13:65-93). For a detailed discussion of this technology for producing human antibodies and human monoclonal antibodies and protocols for producing such antibodies, see, *e.g.*, U.S. Patent 5,625,126; U.S. Patent 5,633,425; U.S. Patent 5,569,825; U.S. Patent 5,661,016; and U.S. Patent

5,545,806. In addition, companies such as Abgenix, Inc. (Freemont, CA), can be engaged to provide human antibodies directed against a selected antigen using technology similar to that described above.

Completely human antibodies which recognize a selected epitope can be generated using a technique referred to as "guided selection." In this approach a selected non-human monoclonal antibody, *e.g.*, a murine antibody, is used to guide the selection of a completely human antibody recognizing the same epitope (Jespers *et al.*, 1994, *Bio/technology* 12:899-903).

An antibody directed against a polypeptide corresponding to a marker of the invention (*e.g.*, a monoclonal antibody) can be used to isolate the polypeptide by standard techniques, such as affinity chromatography or immunoprecipitation. Moreover, such an antibody can be used to detect the marker (*e.g.*, in a cellular lysate or cell supernatant) in order to evaluate the level and pattern of expression of the marker. The antibodies can also be used diagnostically to monitor protein levels in tissues or body fluids (*e.g.* in an ovary-associated body fluid) as part of a clinical testing procedure, *e.g.*, to, for example, determine the efficacy of a given treatment regimen. Detection can be facilitated by coupling the antibody to a detectable substance. Examples of detectable substances include various enzymes, prosthetic groups, fluorescent materials, luminescent materials, bioluminescent materials, and radioactive materials. Examples of suitable enzymes include horseradish peroxidase, alkaline phosphatase, β -galactosidase, or acetylcholinesterase; examples of suitable prosthetic group complexes include streptavidin/biotin and avidin/biotin; examples of suitable fluorescent materials include umbelliferone, fluorescein, fluorescein isothiocyanate, rhodamine, dichlorotriazinylamine fluorescein, dansyl chloride or phycoerythrin; an example of a luminescent material includes luminol; examples of bioluminescent materials include luciferase, luciferin, and aequorin, and examples of suitable radioactive material include ^{125}I , ^{131}I , ^{35}S or ^3H .

Further, an antibody (or fragment thereof) can be conjugated to a therapeutic moiety such as a cytotoxin, a therapeutic agent or a radioactive metal ion. A cytotoxin or cytotoxic agent includes any agent that is detrimental to cells. Examples include taxol, cytochalasin B, gramicidin D, ethidium bromide, emetine, mitomycin, etoposide, tenoposide, vincristine, vinblastine, colchicin, doxorubicin, daunorubicin, dihydroxy

anthracin dione, mitoxantrone, mithramycin, actinomycin D, 1-dehydrotestosterone, glucocorticoids, procaine, tetracaine, lidocaine, propranolol, and puromycin and analogs or homologs thereof. Therapeutic agents include, but are not limited to, antimetabolites (*e.g.*, methotrexate, 6-mercaptopurine, 6-thioguanine, cytarabine, 5-fluorouracil
5 decarbazine), alkylating agents (*e.g.*, mechlorethamine, thioepa chlorambucil, melphalan, carmustine (BSNU) and lomustine (CCNU), cyclophosphamide, busulfan, dibromomannitol, streptozotocin, mitomycin C, and cis-dichlorodiamine platinum (II) (DDP) cisplatin), anthracyclines (*e.g.*, daunorubicin (formerly daunomycin) and doxorubicin), antibiotics (*e.g.*, dactinomycin (formerly actinomycin), bleomycin,
10 mithramycin, and anthramycin (AMC)), and anti-mitotic agents (*e.g.*, vincristine and vinblastine).

The conjugates of the invention can be used for modifying a given biological response, the drug moiety is not to be construed as limited to classical chemical therapeutic agents. For example, the drug moiety may be a protein or polypeptide
15 possessing a desired biological activity. Such proteins may include, for example, a toxin such as abrin, ricin A, pseudomonas exotoxin, or diphtheria toxin; a protein such as tumor necrosis factor, .alpha.-interferon, .beta.-interferon, nerve growth factor, platelet derived growth factor, tissue plasminogen activator; or, biological response modifiers such as, for example, lymphokines, interleukin-1 ("IL-1"), interleukin-2 ("IL-2"),
20 interleukin-6 ("IL-6"), granulocyte macrophage colony stimulating factor ("GM-CSF"), granulocyte colony stimulating factor ("G-CSF"), or other growth factors.

Techniques for conjugating such therapeutic moiety to antibodies are well known, see, *e.g.*, Arnon et al., "Monoclonal Antibodies For Immunotargeting Of Drugs In Cancer Therapy", in *Monoclonal Antibodies And Cancer Therapy*, Reisfeld et al.
25 (eds.), pp. 243-56 (Alan R. Liss, Inc. 1985); Hellstrom et al., "Antibodies For Drug Delivery", in *Controlled Drug Delivery* (2nd Ed.), Robinson et al. (eds.), pp. 623-53 (Marcel Dekker, Inc. 1987); Thorpe, "Antibody Carriers Of Cytotoxic Agents In Cancer Therapy: A Review", in *Monoclonal Antibodies '84: Biological And Clinical Applications*, Pinchera et al. (eds.), pp. 475-506 (1985); "Analysis, Results, And Future
30 Prospective Of The Therapeutic Use Of Radiolabeled Antibody In Cancer Therapy", in *Monoclonal Antibodies For Cancer Detection And Therapy*, Baldwin et al. (eds.), pp.

303-16 (Academic Press 1985), and Thorpe et al., "The Preparation And Cytotoxic Properties Of Antibody-Toxin Conjugates", Immunol. Rev., 62:119-58 (1982).

Alternatively, an antibody can be conjugated to a second antibody to form an antibody heteroconjugate as described by Segal in U.S. Patent No. 4,676,980.

5 Accordingly, in one aspect, the invention provides substantially purified antibodies or fragments thereof, and non-human antibodies or fragments thereof, which antibodies or fragments specifically bind to a polypeptide comprising an amino acid sequence selected from the group consisting of the amino acid sequences of the present invention, an amino acid sequence encoded by the cDNA of the present invention, a
10 fragment of at least 15 amino acid residues of an amino acid sequence of the present invention, an amino acid sequence which is at least 95% identical to the amino acid sequence of the present invention (wherein the percent identity is determined using the ALIGN program of the GCG software package with a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4) and an amino acid sequence which is
15 encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule consisting of the nucleic acid molecules of the present invention, or a complement thereof, under conditions of hybridization of 6X SSC at 45°C and washing in 0.2 X SSC, 0.1% SDS at 65°C. In various embodiments, the substantially purified antibodies of the invention, or fragments thereof, can be human, non-human, chimeric and/or
20 humanized antibodies.

 In another aspect, the invention provides non-human antibodies or fragments thereof, which antibodies or fragments specifically bind to a polypeptide comprising an amino acid sequence selected from the group consisting of: the amino acid sequence of the present invention, an amino acid sequence encoded by the cDNA of the present
25 invention, a fragment of at least 15 amino acid residues of the amino acid sequence of the present invention, an amino acid sequence which is at least 95% identical to the amino acid sequence of the present invention (wherein the percent identity is determined using the ALIGN program of the GCG software package with a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4) and an amino acid sequence
30 which is encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule consisting of the nucleic acid molecules of the present invention, or a complement thereof, under conditions of hybridization of 6X SSC at 45°C and washing

in 0.2 X SSC, 0.1% SDS at 65°C. Such non-human antibodies can be goat, mouse, sheep, horse, chicken, rabbit, or rat antibodies. Alternatively, the non-human antibodies of the invention can be chimeric and/or humanized antibodies. In addition, the non-human antibodies of the invention can be polyclonal antibodies or monoclonal antibodies.

In still a further aspect, the invention provides monoclonal antibodies or fragments thereof, which antibodies or fragments specifically bind to a polypeptide comprising an amino acid sequence selected from the group consisting of the amino acid sequences of the present invention, an amino acid sequence encoded by the cDNA of the present invention, a fragment of at least 15 amino acid residues of an amino acid sequence of the present invention, an amino acid sequence which is at least 95% identical to an amino acid sequence of the present invention (wherein the percent identity is determined using the ALIGN program of the GCG software package with a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4) and an amino acid sequence which is encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule consisting of the nucleic acid molecules of the present invention, or a complement thereof, under conditions of hybridization of 6X SSC at 45°C and washing in 0.2 X SSC, 0.1% SDS at 65°C. The monoclonal antibodies can be human, humanized, chimeric and/or non-human antibodies.

The substantially purified antibodies or fragments thereof may specifically bind to a signal peptide, a secreted sequence, an extracellular domain, a transmembrane or a cytoplasmic domain or cytoplasmic membrane of a polypeptide of the invention. In a particularly preferred embodiment, the substantially purified antibodies or fragments thereof, the non-human antibodies or fragments thereof, and/or the monoclonal antibodies or fragments thereof, of the invention specifically bind to a secreted sequence or an extracellular domain of the amino acid sequences of the present invention.

Any of the antibodies of the invention can be conjugated to a therapeutic moiety or to a detectable substance. Non-limiting examples of detectable substances that can be conjugated to the antibodies of the invention are an enzyme, a prosthetic group, a fluorescent material, a luminescent material, a bioluminescent material, and a radioactive material.

The invention also provides a kit containing an antibody of the invention conjugated to a detectable substance, and instructions for use. Still another aspect of the invention is a pharmaceutical composition comprising an antibody of the invention and a pharmaceutically acceptable carrier. In preferred embodiments, the pharmaceutical
5 composition contains an antibody of the invention, a therapeutic moiety, and a pharmaceutically acceptable carrier.

Still another aspect of the invention is a method of making an antibody that specifically recognizes a polypeptide of the present invention, the method comprising immunizing a mammal with a polypeptide. The polypeptide used as an immungen
10 comprises an amino acid sequence selected from the group consisting of the amino acid sequence of the present invention, an amino acid sequence encoded by the cDNA of the nucleic acid molecules of the present invention, a fragment of at least 15 amino acid residues of the amino acid sequence of the present invention, an amino acid sequence which is at least 95% identical to the amino acid sequence of the present invention
15 (wherein the percent identity is determined using the ALIGN program of the GCG software package with a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4) and an amino acid sequence which is encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule consisting of the nucleic acid molecules of the present invention, or a complement thereof, under conditions of
20 hybridization of 6X SSC at 45°C and washing in 0.2 X SSC, 0.1% SDS at 65°C. After immunization, a sample is collected from the mammal that contains an antibody that specifically recognizes the polypeptide. Preferably, the polypeptide is recombinantly produced using a non-human host cell. Optionally, the antibodies can be further purified from the sample using techniques well known to those of skill in the art.
25 The method can further comprise producing a monoclonal antibody- producing cell from the cells of the mammal. Optionally, antibodies are collected from the antibody-producing cell.

III. Recombinant Expression Vectors and Host Cells

30 Another aspect of the invention pertains to vectors, preferably expression vectors, containing a nucleic acid encoding a polypeptide corresponding to a marker of the invention (or a portion of such a polypeptide). As used herein, the term "vector"

refers to a nucleic acid molecule capable of transporting another nucleic acid to which it has been linked. One type of vector is a "plasmid", which refers to a circular double stranded DNA loop into which additional DNA segments can be ligated. Another type of vector is a viral vector, wherein additional DNA segments can be ligated into the viral genome. Certain vectors are capable of autonomous replication in a host cell into which they are introduced (*e.g.*, bacterial vectors having a bacterial origin of replication and episomal mammalian vectors). Other vectors (*e.g.*, non-episomal mammalian vectors) are integrated into the genome of a host cell upon introduction into the host cell, and thereby are replicated along with the host genome. Moreover, certain vectors, namely expression vectors, are capable of directing the expression of genes to which they are operably linked. In general, expression vectors of utility in recombinant DNA techniques are often in the form of plasmids (vectors). However, the invention is intended to include such other forms of expression vectors, such as viral vectors (*e.g.*, replication defective retroviruses, adenoviruses and adeno-associated viruses), which serve equivalent functions.

The recombinant expression vectors of the invention comprise a nucleic acid of the invention in a form suitable for expression of the nucleic acid in a host cell. This means that the recombinant expression vectors include one or more regulatory sequences, selected on the basis of the host cells to be used for expression, which is operably linked to the nucleic acid sequence to be expressed. Within a recombinant expression vector, "operably linked" is intended to mean that the nucleotide sequence of interest is linked to the regulatory sequence(s) in a manner which allows for expression of the nucleotide sequence (*e.g.*, in an *in vitro* transcription/translation system or in a host cell when the vector is introduced into the host cell). The term "regulatory sequence" is intended to include promoters, enhancers and other expression control elements (*e.g.*, polyadenylation signals). Such regulatory sequences are described, for example, in Goeddel, *Methods in Enzymology: Gene Expression Technology* vol.185, Academic Press, San Diego, CA (1991). Regulatory sequences include those which direct constitutive expression of a nucleotide sequence in many types of host cell and those which direct expression of the nucleotide sequence only in certain host cells (*e.g.*, tissue-specific regulatory sequences). It will be appreciated by those skilled in the art that the design of the expression vector can depend on such factors as the choice of the

host cell to be transformed, the level of expression of protein desired, and the like. The expression vectors of the invention can be introduced into host cells to thereby produce proteins or peptides, including fusion proteins or peptides, encoded by nucleic acids as described herein.

5 The recombinant expression vectors of the invention can be designed for expression of a polypeptide corresponding to a marker of the invention in prokaryotic (e.g., *E. coli*) or eukaryotic cells (e.g., insect cells {using baculovirus expression vectors}, yeast cells or mammalian cells). Suitable host cells are discussed further in Goeddel, *supra*. Alternatively, the recombinant expression vector can be transcribed
10 and translated *in vitro*, for example using T7 promoter regulatory sequences and T7 polymerase.

Expression of proteins in prokaryotes is most often carried out in *E. coli* with vectors containing constitutive or inducible promoters directing the expression of either fusion or non-fusion proteins. Fusion vectors add a number of amino acids to a protein
15 encoded therein, usually to the amino terminus of the recombinant protein. Such fusion vectors typically serve three purposes: 1) to increase expression of recombinant protein; 2) to increase the solubility of the recombinant protein; and 3) to aid in the purification of the recombinant protein by acting as a ligand in affinity purification. Often, in fusion expression vectors, a proteolytic cleavage site is introduced at the junction of the fusion
20 moiety and the recombinant protein to enable separation of the recombinant protein from the fusion moiety subsequent to purification of the fusion protein. Such enzymes, and their cognate recognition sequences, include Factor Xa, thrombin and enterokinase. Typical fusion expression vectors include pGEX (Pharmacia Biotech Inc; Smith and Johnson, 1988, *Gene* 67:31-40), pMAL (New England Biolabs, Beverly, MA) and
25 pRIT5 (Pharmacia, Piscataway, NJ) which fuse glutathione S-transferase (GST), maltose E binding protein, or protein A, respectively, to the target recombinant protein.

Examples of suitable inducible non-fusion *E. coli* expression vectors include pTrc (Amann *et al.*, 1988, *Gene* 69:301-315) and pET 11d (Studier *et al.*, p. 60-89, In *Gene Expression Technology: Methods in Enzymology* vol.185, Academic Press, San
30 Diego, CA, 1991). Target gene expression from the pTrc vector relies on host RNA polymerase transcription from a hybrid *trp-lac* fusion promoter. Target gene expression from the pET 11d vector relies on transcription from a T7 *gn10-lac* fusion promoter

- 57 -

mediated by a co-expressed viral RNA polymerase (T7 *gn1*). This viral polymerase is supplied by host strains BL21(DE3) or HMS174(DE3) from a resident prophage harboring a T7 *gn1* gene under the transcriptional control of the *lacUV 5* promoter.

One strategy to maximize recombinant protein expression in *E. coli* is to express
5 the protein in a host bacteria with an impaired capacity to proteolytically cleave the recombinant protein (Gottesman, p. 119-128, In *Gene Expression Technology: Methods in Enzymology* vol. 185, Academic Press, San Diego, CA, 1990. Another strategy is to alter the nucleic acid sequence of the nucleic acid to be inserted into an expression vector so that the individual codons for each amino acid are those preferentially utilized
10 in *E. coli* (Wada *et al.*, 1992, *Nucleic Acids Res.* 20:2111-2118). Such alteration of nucleic acid sequences of the invention can be carried out by standard DNA synthesis techniques.

In another embodiment, the expression vector is a yeast expression vector. Examples of vectors for expression in yeast *S. cerevisiae* include pYepSec1 (Baldari *et al.*, 1987, *EMBO J.* 6:229-234), pMFa (Kurjan and Herskowitz, 1982, *Cell* 30:933-
15 943), pJRY88 (Schultz *et al.*, 1987, *Gene* 54:113-123), pYES2 (Invitrogen Corporation, San Diego, CA), and pPicZ (Invitrogen Corp, San Diego, CA).

Alternatively, the expression vector is a baculovirus expression vector. Baculovirus vectors available for expression of proteins in cultured insect cells (*e.g.*, Sf
20 9 cells) include the pAc series (Smith *et al.*, 1983, *Mol. Cell Biol.* 3:2156-2165) and the pVL series (Lucklow and Summers, 1989, *Virology* 170:31-39).

In yet another embodiment, a nucleic acid of the invention is expressed in mammalian cells using a mammalian expression vector. Examples of mammalian expression vectors include pCDM8 (Seed, 1987, *Nature* 329:840) and pMT2PC
25 (Kaufman *et al.*, 1987, *EMBO J.* 6:187-195). When used in mammalian cells, the expression vector's control functions are often provided by viral regulatory elements. For example, commonly used promoters are derived from polyoma, Adenovirus 2, cytomegalovirus and Simian Virus 40. For other suitable expression systems for both prokaryotic and eukaryotic cells see chapters 16 and 17 of Sambrook *et al.*, *supra*.

30 In another embodiment, the recombinant mammalian expression vector is capable of directing expression of the nucleic acid preferentially in a particular cell type (*e.g.*, tissue-specific regulatory elements are used to express the nucleic acid). Tissue-

specific regulatory elements are known in the art. Non-limiting examples of suitable tissue-specific promoters include the albumin promoter (liver-specific; Pinkert *et al.*, 1987, *Genes Dev.* 1:268-277), lymphoid-specific promoters (Calame and Eaton, 1988, *Adv. Immunol.* 43:235-275), in particular promoters of T cell receptors (Winoto and
5 Baltimore, 1989, *EMBO J.* 8:729-733) and immunoglobulins (Banerji *et al.*, 1983, *Cell* 33:729-740; Queen and Baltimore, 1983, *Cell* 33:741-748), neuron-specific promoters (*e.g.*, the neurofilament promoter; Byrne and Ruddle, 1989, *Proc. Natl. Acad. Sci. USA* 86:5473-5477), pancreas-specific promoters (Edlund *et al.*, 1985, *Science* 230:912-916), and mammary gland-specific promoters (*e.g.*, milk whey promoter; U.S. Patent No.
10 4,873,316 and European Application Publication No. 264,166). Developmentally-regulated promoters are also encompassed, for example the murine hox promoters (Kessel and Gruss, 1990, *Science* 249:374-379) and the α -fetoprotein promoter (Camper and Tilghman, 1989, *Genes Dev.* 3:537-546).

The invention further provides a recombinant expression vector comprising a
15 DNA molecule of the invention cloned into the expression vector in an antisense orientation. That is, the DNA molecule is operably linked to a regulatory sequence in a manner which allows for expression (by transcription of the DNA molecule) of an RNA molecule which is antisense to the mRNA encoding a polypeptide of the invention. Regulatory sequences operably linked to a nucleic acid cloned in the antisense
20 orientation can be chosen which direct the continuous expression of the antisense RNA molecule in a variety of cell types, for instance viral promoters and/or enhancers, or regulatory sequences can be chosen which direct constitutive, tissue-specific or cell type specific expression of antisense RNA. The antisense expression vector can be in the form of a recombinant plasmid, phagemid, or attenuated virus in which antisense nucleic
25 acids are produced under the control of a high efficiency regulatory region, the activity of which can be determined by the cell type into which the vector is introduced. For a discussion of the regulation of gene expression using antisense genes see Weintraub *et al.*, 1986, *Trends in Genetics*, Vol. 1(1).

Another aspect of the invention pertains to host cells into which a recombinant
30 expression vector of the invention has been introduced. The terms "host cell" and "recombinant host cell" are used interchangeably herein. It is understood that such terms refer not only to the particular subject cell but to the progeny or potential progeny

of such a cell. Because certain modifications may occur in succeeding generations due to either mutation or environmental influences, such progeny may not, in fact, be identical to the parent cell, but are still included within the scope of the term as used herein.

- 5 A host cell can be any prokaryotic (*e.g.*, *E. coli*) or eukaryotic cell (*e.g.*, insect cells, yeast or mammalian cells).

Vector DNA can be introduced into prokaryotic or eukaryotic cells via conventional transformation or transfection techniques. As used herein, the terms "transformation" and "transfection" are intended to refer to a variety of art-recognized techniques for introducing foreign nucleic acid into a host cell, including calcium phosphate or calcium chloride co-precipitation, DEAE-dextran-mediated transfection, lipofection, or electroporation. Suitable methods for transforming or transfecting host cells can be found in Sambrook, *et al.* (*supra*), and other laboratory manuals.

- For stable transfection of mammalian cells, it is known that, depending upon the expression vector and transfection technique used, only a small fraction of cells may integrate the foreign DNA into their genome. In order to identify and select these integrants, a gene that encodes a selectable marker (*e.g.*, for resistance to antibiotics) is generally introduced into the host cells along with the gene of interest. Preferred selectable markers include those which confer resistance to drugs, such as G418, hygromycin and methotrexate. Cells stably transfected with the introduced nucleic acid can be identified by drug selection (*e.g.*, cells that have incorporated the selectable marker gene will survive, while the other cells die).

- A host cell of the invention, such as a prokaryotic or eukaryotic host cell in culture, can be used to produce a polypeptide corresponding to a marker of the invention. Accordingly, the invention further provides methods for producing a polypeptide corresponding to a marker of the invention using the host cells of the invention. In one embodiment, the method comprises culturing the host cell of invention (into which a recombinant expression vector encoding a polypeptide of the invention has been introduced) in a suitable medium such that the marker is produced. In another embodiment, the method further comprises isolating the marker polypeptide from the medium or the host cell.

The host cells of the invention can also be used to produce nonhuman transgenic animals. For example, in one embodiment, a host cell of the invention is a fertilized oocyte or an embryonic stem cell into which a sequences encoding a polypeptide corresponding to a marker of the invention have been introduced. Such host cells can then be used to create non-human transgenic animals in which exogenous sequences encoding a marker protein of the invention have been introduced into their genome or homologous recombinant animals in which endogenous gene(s) encoding a polypeptide corresponding to a marker of the invention sequences have been altered. Such animals are useful for studying the function and/or activity of the polypeptide corresponding to the marker and for identifying and/or evaluating modulators of polypeptide activity. As used herein, a "transgenic animal" is a non-human animal, preferably a mammal, more preferably a rodent such as a rat or mouse, in which one or more of the cells of the animal includes a transgene. Other examples of transgenic animals include non-human primates, sheep, dogs, cows, goats, chickens, amphibians, etc. A transgene is exogenous DNA which is integrated into the genome of a cell from which a transgenic animal develops and which remains in the genome of the mature animal, thereby directing the expression of an encoded gene product in one or more cell types or tissues of the transgenic animal. As used herein, an "homologous recombinant animal" is a non-human animal, preferably a mammal, more preferably a mouse, in which an endogenous gene has been altered by homologous recombination between the endogenous gene and an exogenous DNA molecule introduced into a cell of the animal, *e.g.*, an embryonic cell of the animal, prior to development of the animal.

A transgenic animal of the invention can be created by introducing a nucleic acid encoding a polypeptide corresponding to a marker of the invention into the male pronuclei of a fertilized oocyte, *e.g.*, by microinjection, retroviral infection, and allowing the oocyte to develop in a pseudopregnant female foster animal. Intronic sequences and polyadenylation signals can also be included in the transgene to increase the efficiency of expression of the transgene. A tissue-specific regulatory sequence(s) can be operably linked to the transgene to direct expression of the polypeptide of the invention to particular cells. Methods for generating transgenic animals via embryo manipulation and microinjection, particularly animals such as mice, have become conventional in the art and are described, for example, in U.S. Patent Nos. 4,736,866 and 4,870,009, U.S.

Patent No. 4,873,191 and in Hogan, *Manipulating the Mouse Embryo*, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, N.Y., 1986. Similar methods are used for production of other transgenic animals. A transgenic founder animal can be identified based upon the presence of the transgene in its genome and/or expression of mRNA
5 encoding the transgene in tissues or cells of the animals. A transgenic founder animal can then be used to breed additional animals carrying the transgene. Moreover, transgenic animals carrying the transgene can further be bred to other transgenic animals carrying other transgenes.

To create an homologous recombinant animal, a vector is prepared which
10 contains at least a portion of a gene encoding a polypeptide corresponding to a marker of the invention into which a deletion, addition or substitution has been introduced to thereby alter, *e.g.*, functionally disrupt, the gene. In a preferred embodiment, the vector is designed such that, upon homologous recombination, the endogenous gene is functionally disrupted (*i.e.*, no longer encodes a functional protein; also referred to as a
15 "knock out" vector). Alternatively, the vector can be designed such that, upon homologous recombination, the endogenous gene is mutated or otherwise altered but still encodes functional protein (*e.g.*, the upstream regulatory region can be altered to thereby alter the expression of the endogenous protein). In the homologous recombination vector, the altered portion of the gene is flanked at its 5' and 3' ends by
20 additional nucleic acid of the gene to allow for homologous recombination to occur between the exogenous gene carried by the vector and an endogenous gene in an embryonic stem cell. The additional flanking nucleic acid sequences are of sufficient length for successful homologous recombination with the endogenous gene. Typically, several kilobases of flanking DNA (both at the 5' and 3' ends) are included in the vector
25 (see, *e.g.*, Thomas and Capecchi, 1987, *Cell* 51:503 for a description of homologous recombination vectors). The vector is introduced into an embryonic stem cell line (*e.g.*, by electroporation) and cells in which the introduced gene has homologously recombined with the endogenous gene are selected (see, *e.g.*, Li *et al.*, 1992, *Cell* 69:915). The selected cells are then injected into a blastocyst of an animal (*e.g.*, a
30 mouse) to form aggregation chimeras (see, *e.g.*, Bradley, *Teratocarcinomas and Embryonic Stem Cells: A Practical Approach*, Robertson, Ed., IRL, Oxford, 1987, pp. 113-152). A chimeric embryo can then be implanted into a suitable pseudopregnant

female foster animal and the embryo brought to term. Progeny harboring the homologously recombined DNA in their germ cells can be used to breed animals in which all cells of the animal contain the homologously recombined DNA by germline transmission of the transgene. Methods for constructing homologous recombination
5 vectors and homologous recombinant animals are described further in Bradley (1991) *Current Opinion in Bio/Technology* 2:823-829 and in PCT Publication NOS. WO 90/11354, WO 91/01140, WO 92/0968, and WO 93/04169.

In another embodiment, transgenic non-human animals can be produced which contain selected systems which allow for regulated expression of the transgene. One
10 example of such a system is the *cre/loxP* recombinase system of bacteriophage P1. For a description of the *cre/loxP* recombinase system, see, e.g., Lakso *et al.* (1992) *Proc. Natl. Acad. Sci. USA* 89:6232-6236. Another example of a recombinase system is the FLP recombinase system of *Saccharomyces cerevisiae* (O'Gorman *et al.*, 1991, *Science* 251:1351-1355). If a *cre/loxP* recombinase system is used to regulate expression of the
15 transgene, animals containing transgenes encoding both the *Cre* recombinase and a selected protein are required. Such animals can be provided through the construction of "double" transgenic animals, e.g., by mating two transgenic animals, one containing a transgene encoding a selected protein and the other containing a transgene encoding a recombinase.

20 Clones of the non-human transgenic animals described herein can also be produced according to the methods described in Wilmot *et al.* (1997) *Nature* 385:810-813 and PCT Publication NOS. WO 97/07668 and WO 97/07669.

IV. Pharmaceutical Compositions

25 The nucleic acid molecules, polypeptides, and antibodies (also referred to herein as "active compounds") corresponding to a marker of the invention can be incorporated into pharmaceutical compositions suitable for administration. Such compositions typically comprise the nucleic acid molecule, protein, or antibody and a pharmaceutically acceptable carrier. As used herein the language "pharmaceutically
30 acceptable carrier" is intended to include any and all solvents, dispersion media, coatings, antibacterial and antifungal agents, isotonic and absorption delaying agents, and the like, compatible with pharmaceutical administration. The use of such media and

agents for pharmaceutically active substances is well known in the art. Except insofar as any conventional media or agent is incompatible with the active compound, use thereof in the compositions is contemplated. Supplementary active compounds can also be incorporated into the compositions.

5 The invention includes methods for preparing pharmaceutical compositions for modulating the expression or activity of a polypeptide or nucleic acid corresponding to a marker of the invention. Such methods comprise formulating a pharmaceutically acceptable carrier with an agent which modulates expression or activity of a polypeptide or nucleic acid corresponding to a marker of the invention. Such compositions can
10 further include additional active agents. Thus, the invention further includes methods for preparing a pharmaceutical composition by formulating a pharmaceutically acceptable carrier with an agent which modulates expression or activity of a polypeptide or nucleic acid corresponding to a marker of the invention and one or more additional active compounds.

15 The invention also provides methods (also referred to herein as "screening assays") for identifying modulators, *i.e.*, candidate or test compounds or agents (*e.g.*, peptides, peptidomimetics, peptoids, small molecules or other drugs) which (a) bind to the marker, or (b) have a modulatory (*e.g.*, stimulatory or inhibitory) effect on the activity of the marker or, more specifically, (c) have a modulatory effect on the
20 interactions of the marker with one or more of its natural substrates (*e.g.*, peptide, protein, hormone, co-factor, or nucleic acid), or (d) have a modulatory effect on the expression of the marker. Such assays typically comprise a reaction between the marker and one or more assay components. The other components may be either the test compound itself, or a combination of test compound and a natural binding partner of the
25 marker.

 The test compounds of the present invention may be obtained from any available source, including systematic libraries of natural and/or synthetic compounds. Test compounds may also be obtained by any of the numerous approaches in combinatorial library methods known in the art, including: biological libraries; peptoid libraries
30 (libraries of molecules having the functionalities of peptides, but with a novel, non-peptide backbone which are resistant to enzymatic degradation but which nevertheless remain bioactive; see, *e.g.*, Zuckermann *et al.*, 1994, *J. Med. Chem.* 37:2678-85);

spatially addressable parallel solid phase or solution phase libraries; synthetic library methods requiring deconvolution; the 'one-bead one-compound' library method; and synthetic library methods using affinity chromatography selection. The biological library and peptoid library approaches are limited to peptide libraries, while the other
5 four approaches are applicable to peptide, non-peptide oligomer or small molecule libraries of compounds (Lam, 1997, *Anticancer Drug Des.* 12:145).

Examples of methods for the synthesis of molecular libraries can be found in the art, for example in: DeWitt *et al.* (1993) *Proc. Natl. Acad. Sci. U.S.A.* 90:6909; Erb *et al.* (1994) *Proc. Natl. Acad. Sci. USA* 91:11422; Zuckermann *et al.* (1994). *J. Med.*
10 *Chem.* 37:2678; Cho *et al.* (1993) *Science* 261:1303; Carrell *et al.* (1994) *Angew. Chem. Int. Ed. Engl.* 33:2059; Carrell *et al.* (1994) *Angew. Chem. Int. Ed. Engl.* 33:2061; and in Gallop *et al.* (1994) *J. Med. Chem.* 37:1233.

Libraries of compounds may be presented in solution (*e.g.*, Houghten, 1992, *Biotechniques* 13:412-421), or on beads (Lam, 1991, *Nature* 354:82-84), chips (Fodor,
15 1993, *Nature* 364:555-556), bacteria and/or spores, (Ladner, USP 5,223,409), plasmids (Cull *et al.*, 1992, *Proc Natl Acad Sci USA* 89:1865-1869) or on phage (Scott and Smith, 1990, *Science* 249:386-390; Devlin, 1990, *Science* 249:404-406; Cwirla *et al.*, 1990, *Proc. Natl. Acad. Sci.* 87:6378-6382; Felici, 1991, *J. Mol. Biol.* 222:301-310; Ladner, *supra.*).

20 In one embodiment, the invention provides assays for screening candidate or test compounds which are substrates of a marker or biologically active portion thereof. In another embodiment, the invention provides assays for screening candidate or test compounds which bind to a marker or biologically active portion thereof. Determining the ability of the test compound to directly bind to a marker can be accomplished, for
25 example, by coupling the compound with a radioisotope or enzymatic label such that binding of the compound to the marker can be determined by detecting the labeled marker compound in a complex. For example, compounds (*e.g.*, marker substrates) can be labeled with ^{125}I , ^{35}S , ^{14}C , or ^3H , either directly or indirectly, and the radioisotope detected by direct counting of radioemission or by scintillation counting. Alternatively,
30 assay components can be enzymatically labeled with, for example, horseradish peroxidase, alkaline phosphatase, or luciferase, and the enzymatic label detected by determination of conversion of an appropriate substrate to product.

In another embodiment, the invention provides assays for screening candidate or test compounds which modulate the activity of a marker or a biologically active portion thereof. In all likelihood, the marker can, *in vivo*, interact with one or more molecules, such as but not limited to, peptides, proteins, hormones, cofactors and nucleic acids. For the purposes of this discussion, such cellular and extracellular molecules are referred to
5 herein as "binding partners" or marker "substrate".

One necessary embodiment of the invention in order to facilitate such screening is the use of the marker to identify its natural *in vivo* binding partners. There are many ways to accomplish this which are known to one skilled in the art. One example is the
10 use of the marker protein as "bait protein" in a two-hybrid assay or three-hybrid assay (see, *e.g.*, U.S. Patent No. 5,283,317; Zervos *et al*, 1993, *Cell* 72:223-232; Madura *et al*, 1993, *J. Biol. Chem.* 268:12046-12054; Bartel *et al*, 1993, *Biotechniques* 14:920-924; Iwabuchi *et al*, 1993 *Oncogene* 8:1693-1696; Brent WO94/10300) in order to identify other proteins which bind to or interact with the marker (binding partners) and,
15 therefore, are possibly involved in the natural function of the marker. Such marker binding partners are also likely to be involved in the propagation of signals by the marker or downstream elements of a marker-mediated signaling pathway. Alternatively, such marker binding partners may also be found to be inhibitors of the marker.

The two-hybrid system is based on the modular nature of most transcription
20 factors, which consist of separable DNA-binding and activation domains. Briefly, the assay utilizes two different DNA constructs. In one construct, the gene that encodes a marker protein fused to a gene encoding the DNA binding domain of a known transcription factor (*e.g.*, GAL-4). In the other construct, a DNA sequence, from a library of DNA sequences, that encodes an unidentified protein ("prey" or "sample") is
25 fused to a gene that codes for the activation domain of the known transcription factor. If the "bait" and the "prey" proteins are able to interact, *in vivo*, forming a marker-dependent complex, the DNA-binding and activation domains of the transcription factor are brought into close proximity. This proximity allows transcription of a reporter gene (*e.g.*, LacZ) which is operably linked to a transcriptional regulatory site responsive to
30 the transcription factor. Expression of the reporter gene can be readily detected and cell colonies containing the functional transcription factor can be isolated and used to obtain the cloned gene which encodes the protein which interacts with the marker protein.

- 66 -

In a further embodiment, assays may be devised through the use of the invention for the purpose of identifying compounds which modulate (*e.g.*, affect either positively or negatively) interactions between a marker and its substrates and/or binding partners. Such compounds can include, but are not limited to, molecules such as antibodies, peptides, hormones, oligonucleotides, nucleic acids, and analogs thereof. Such compounds may also be obtained from any available source, including systematic libraries of natural and/or synthetic compounds. The preferred assay components for use in this embodiment is an cervical cancer marker identified herein, the known binding partner and/or substrate of same, and the test compound. Test compounds can be supplied from any source.

The basic principle of the assay systems used to identify compounds that interfere with the interaction between the marker and its binding partner involves preparing a reaction mixture containing the marker and its binding partner under conditions and for a time sufficient to allow the two products to interact and bind, thus forming a complex. In order to test an agent for inhibitory activity, the reaction mixture is prepared in the presence and absence of the test compound. The test compound can be initially included in the reaction mixture, or can be added at a time subsequent to the addition of the marker and its binding partner. Control reaction mixtures are incubated without the test compound or with a placebo. The formation of any complexes between the marker and its binding partner is then detected. The formation of a complex in the control reaction, but less or no such formation in the reaction mixture containing the test compound, indicates that the compound interferes with the interaction of the marker and its binding partner. Conversely, the formation of more complex in the presence of compound than in the control reaction indicates that the compound may enhance interaction of the marker and its binding partner.

The assay for compounds that interfere with the interaction of the marker with its binding partner may be conducted in a heterogeneous or homogeneous format. Heterogeneous assays involve anchoring either the marker or its binding partner onto a solid phase and detecting complexes anchored to the solid phase at the end of the reaction. In homogeneous assays, the entire reaction is carried out in a liquid phase. In either approach, the order of addition of reactants can be varied to obtain different information about the compounds being tested. For example, test compounds that

interfere with the interaction between the markers and the binding partners (*e.g.*, by competition) can be identified by conducting the reaction in the presence of the test substance, *i.e.*, by adding the test substance to the reaction mixture prior to or simultaneously with the marker and its interactive binding partner. Alternatively, test compounds that disrupt preformed complexes, *e.g.*, compounds with higher binding constants that displace one of the components from the complex, can be tested by adding the test compound to the reaction mixture after complexes have been formed. The various formats are briefly described below.

In a heterogeneous assay system, either the marker or its binding partner is anchored onto a solid surface or matrix, while the other corresponding non-anchored component may be labeled, either directly or indirectly. In practice, microtitre plates are often utilized for this approach. The anchored species can be immobilized by a number of methods, either non-covalent or covalent, that are typically well known to one who practices the art. Non-covalent attachment can often be accomplished simply by coating the solid surface with a solution of the marker or its binding partner and drying. Alternatively, an immobilized antibody specific for the assay component to be anchored can be used for this purpose. Such surfaces can often be prepared in advance and stored.

In related embodiments, a fusion protein can be provided which adds a domain that allows one or both of the assay components to be anchored to a matrix. For example, glutathione-S-transferase/marker fusion proteins or glutathione-S-transferase/binding partner can be adsorbed onto glutathione sepharose beads (Sigma Chemical, St. Louis, MO) or glutathione derivatized microtiter plates, which are then combined with the test compound or the test compound and either the non-adsorbed marker or its binding partner, and the mixture incubated under conditions conducive to complex formation (*e.g.*, physiological conditions). Following incubation, the beads or microtiter plate wells are washed to remove any unbound assay components, the immobilized complex assessed either directly or indirectly, for example, as described above. Alternatively, the complexes can be dissociated from the matrix, and the level of marker binding or activity determined using standard techniques.

Other techniques for immobilizing proteins on matrices can also be used in the screening assays of the invention. For example, either a marker or a marker binding partner can be immobilized utilizing conjugation of biotin and streptavidin. Biotinylated

- 68 -

marker protein or target molecules can be prepared from biotin-NHS (N-hydroxy-succinimide) using techniques known in the art (*e.g.*, biotinylation kit, Pierce Chemicals, Rockford, IL), and immobilized in the wells of streptavidin-coated 96 well plates (Pierce Chemical). In certain embodiments, the protein-immobilized surfaces can be prepared in
5 advance and stored.

In order to conduct the assay, the corresponding partner of the immobilized assay component is exposed to the coated surface with or without the test compound. After the reaction is complete, unreacted assay components are removed (*e.g.*, by washing) and any complexes formed will remain immobilized on the solid surface. The detection
10 of complexes anchored on the solid surface can be accomplished in a number of ways. Where the non-immobilized component is pre-labeled, the detection of label immobilized on the surface indicates that complexes were formed. Where the non-immobilized component is not pre-labeled, an indirect label can be used to detect complexes anchored on the surface; *e.g.*, using a labeled antibody specific for the
15 initially non-immobilized species (the antibody, in turn, can be directly labeled or indirectly labeled with, *e.g.*, a labeled anti-Ig antibody). Depending upon the order of addition of reaction components, test compounds which modulate (inhibit or enhance) complex formation or which disrupt preformed complexes can be detected.

In an alternate embodiment of the invention, a homogeneous assay may be used.
20 This is typically a reaction, analogous to those mentioned above, which is conducted in a liquid phase in the presence or absence of the test compound. The formed complexes are then separated from unreacted components, and the amount of complex formed is determined. As mentioned for heterogeneous assay systems, the order of addition of reactants to the liquid phase can yield information about which test compounds
25 modulate (inhibit or enhance) complex formation and which disrupt preformed complexes.

In such a homogeneous assay, the reaction products may be separated from unreacted assay components by any of a number of standard techniques, including but not limited to: differential centrifugation, chromatography, electrophoresis and
30 immunoprecipitation. In differential centrifugation, complexes of molecules may be separated from uncomplexed molecules through a series of centrifugal steps, due to the different sedimentation equilibria of complexes based on their different sizes and

densities (see, for example, Rivas, G., and Minton, A.P., *Trends Biochem Sci* 1993 Aug;18(8):284-7). Standard chromatographic techniques may also be utilized to separate complexed molecules from uncomplexed ones. For example, gel filtration chromatography separates molecules based on size, and through the utilization of an appropriate gel filtration resin in a column format, for example, the relatively larger complex may be separated from the relatively smaller uncomplexed components. Similarly, the relatively different charge properties of the complex as compared to the uncomplexed molecules may be exploited to differentially separate the complex from the remaining individual reactants, for example through the use of ion-exchange chromatography resins. Such resins and chromatographic techniques are well known to one skilled in the art (see, e.g., Heegaard, 1998, *J Mol. Recognit.* 11:141-148; Hage and Tweed, 1997, *J. Chromatogr. B. Biomed. Sci. Appl.*, 699:499-525). Gel electrophoresis may also be employed to separate complexed molecules from unbound species (see, e.g., Ausubel *et al* (eds.), In: *Current Protocols in Molecular Biology*, J. Wiley & Sons, New York. 1999). In this technique, protein or nucleic acid complexes are separated based on size or charge, for example. In order to maintain the binding interaction during the electrophoretic process, nondenaturing gels in the absence of reducing agent are typically preferred, but conditions appropriate to the particular interactants will be well known to one skilled in the art. Immunoprecipitation is another common technique utilized for the isolation of a protein-protein complex from solution (see, e.g., Ausubel *et al* (eds.), In: *Current Protocols in Molecular Biology*, J. Wiley & Sons, New York. 1999). In this technique, all proteins binding to an antibody specific to one of the binding molecules are precipitated from solution by conjugating the antibody to a polymer bead that may be readily collected by centrifugation. The bound assay components are released from the beads (through a specific proteolysis event or other technique well known in the art which will not disturb the protein-protein interaction in the complex), and a second immunoprecipitation step is performed, this time utilizing antibodies specific for the correspondingly different interacting assay component. In this manner, only formed complexes should remain attached to the beads. Variations in complex formation in both the presence and the absence of a test compound can be compared, thus offering information about the ability of the compound to modulate interactions between the marker and its binding partner.

Also within the scope of the present invention are methods for direct detection of interactions between the marker and its natural binding partner and/or a test compound in a homogeneous or heterogeneous assay system without further sample manipulation. For example, the technique of fluorescence energy transfer may be utilized (see, *e.g.*,
5 Lakowicz *et al*, U.S. Patent No. 5,631,169; Stavrianopoulos *et al*, U.S. Patent No. 4,868,103). Generally, this technique involves the addition of a fluorophore label on a first 'donor' molecule (*e.g.*, marker or test compound) such that its emitted fluorescent energy will be absorbed by a fluorescent label on a second, 'acceptor' molecule (*e.g.*, marker or test compound), which in turn is able to fluoresce due to the absorbed energy.
10 Alternately, the 'donor' protein molecule may simply utilize the natural fluorescent energy of tryptophan residues. Labels are chosen that emit different wavelengths of light, such that the 'acceptor' molecule label may be differentiated from that of the 'donor'. Since the efficiency of energy transfer between the labels is related to the distance separating the molecules, spatial relationships between the molecules can be
15 assessed. In a situation in which binding occurs between the molecules, the fluorescent emission of the 'acceptor' molecule label in the assay should be maximal. An FET binding event can be conveniently measured through standard fluorometric detection means well known in the art (*e.g.*, using a fluorimeter). A test substance which either enhances or hinders participation of one of the species in the preformed complex will
20 result in the generation of a signal variant to that of background. In this way, test substances that modulate interactions between a marker and its binding partner can be identified in controlled assays.

In another embodiment, modulators of marker expression are identified in a method wherein a cell is contacted with a candidate compound and the expression of
25 mRNA or protein, corresponding to a marker in the cell, is determined. The level of expression of mRNA or protein in the presence of the candidate compound is compared to the level of expression of mRNA or protein in the absence of the candidate compound. The candidate compound can then be identified as a modulator of marker expression based on this comparison. For example, when expression of marker mRNA
30 or protein is greater (statistically significantly greater) in the presence of the candidate compound than in its absence, the candidate compound is identified as a stimulator of marker mRNA or protein expression. Conversely, when expression of marker mRNA

or protein is less (statistically significantly less) in the presence of the candidate compound than in its absence, the candidate compound is identified as an inhibitor of marker mRNA or protein expression. The level of marker mRNA or protein expression in the cells can be determined by methods described herein for detecting marker mRNA
5 or protein.

In another aspect, the invention pertains to a combination of two or more of the assays described herein. For example, a modulating agent can be identified using a cell-based or a cell free assay, and the ability of the agent to modulate the activity of a marker protein can be further confirmed *in vivo*, *e.g.*, in a whole animal model for
10 cellular transformation and/or tumorigenesis.

This invention further pertains to novel agents identified by the above-described screening assays. Accordingly, it is within the scope of this invention to further use an agent identified as described herein in an appropriate animal model. For example, an agent identified as described herein (*e.g.*, an marker modulating agent, an antisense
15 marker nucleic acid molecule, an marker-specific antibody, or an marker-binding partner) can be used in an animal model to determine the efficacy, toxicity, or side effects of treatment with such an agent. Alternatively, an agent identified as described herein can be used in an animal model to determine the mechanism of action of such an agent. Furthermore, this invention pertains to uses of novel agents identified by the
20 above-described screening assays for treatments as described herein.

It is understood that appropriate doses of small molecule agents and protein or polypeptide agents depends upon a number of factors within the knowledge of the ordinarily skilled physician, veterinarian, or researcher. The dose(s) of these agents will vary, for example, depending upon the identity, size, and condition of the subject or
25 sample being treated, further depending upon the route by which the composition is to be administered, if applicable, and the effect which the practitioner desires the agent to have upon the nucleic acid or polypeptide of the invention. Exemplary doses of a small molecule include milligram or microgram amounts per kilogram of subject or sample weight (*e.g.* about 1 microgram per kilogram to about 500 milligrams per kilogram,
30 about 100 micrograms per kilogram to about 5 milligrams per kilogram, or about 1 microgram per kilogram to about 50 micrograms per kilogram). Exemplary doses of a protein or polypeptide include gram, milligram or microgram amounts per kilogram of

subject or sample weight (*e.g.* about 1 microgram per kilogram to about 5 grams per kilogram, about 100 micrograms per kilogram to about 500 milligrams per kilogram, or about 1 milligram per kilogram to about 50 milligrams per kilogram). It is furthermore understood that appropriate doses of one of these agents depend upon the potency of the agent with respect to the expression or activity to be modulated. Such appropriate doses can be determined using the assays described herein. When one or more of these agents is to be administered to an animal (*e.g.* a human) in order to modulate expression or activity of a polypeptide or nucleic acid of the invention, a physician, veterinarian, or researcher can, for example, prescribe a relatively low dose at first, subsequently increasing the dose until an appropriate response is obtained. In addition, it is understood that the specific dose level for any particular animal subject will depend upon a variety of factors including the activity of the specific agent employed, the age, body weight, general health, gender, and diet of the subject, the time of administration, the route of administration, the rate of excretion, any drug combination, and the degree of expression or activity to be modulated.

A pharmaceutical composition of the invention is formulated to be compatible with its intended route of administration. Examples of routes of administration include parenteral, *e.g.*, intravenous, intradermal, subcutaneous, oral (*e.g.*, inhalation), transdermal (topical), transmucosal, and rectal administration. Solutions or suspensions used for parenteral, intradermal, or subcutaneous application can include the following components: a sterile diluent such as water for injection, saline solution, fixed oils, polyethylene glycols, glycerine, propylene glycol or other synthetic solvents; antibacterial agents such as benzyl alcohol or methyl parabens; antioxidants such as ascorbic acid or sodium bisulfite; chelating agents such as ethylenediamine-tetraacetic acid; buffers such as acetates, citrates or phosphates and agents for the adjustment of tonicity such as sodium chloride or dextrose. pH can be adjusted with acids or bases, such as hydrochloric acid or sodium hydroxide. The parenteral preparation can be enclosed in ampules, disposable syringes or multiple dose vials made of glass or plastic.

Pharmaceutical compositions suitable for injectable use include sterile aqueous solutions (where water soluble) or dispersions and sterile powders for the extemporaneous preparation of sterile injectable solutions or dispersions. For intravenous administration, suitable carriers include physiological saline, bacteriostatic

- water, Cremophor EL (BASF; Parsippany, NJ) or phosphate buffered saline (PBS). In all cases, the composition must be sterile and should be fluid to the extent that easy syringability exists. It must be stable under the conditions of manufacture and storage and must be preserved against the contaminating action of microorganisms such as
- 5 bacteria and fungi. The carrier can be a solvent or dispersion medium containing, for example, water, ethanol, polyol (for example, glycerol, propylene glycol, and liquid polyethylene glycol, and the like), and suitable mixtures thereof. The proper fluidity can be maintained, for example, by the use of a coating such as lecithin, by the maintenance of the required particle size in the case of dispersion and by the use of surfactants.
- 10 Prevention of the action of microorganisms can be achieved by various antibacterial and antifungal agents, for example, parabens, chlorobutanol, phenol, ascorbic acid, thimerosal, and the like. In many cases, it will be preferable to include isotonic agents, for example, sugars, polyalcohols such as mannitol, sorbitol, or sodium chloride in the composition. Prolonged absorption of the injectable compositions can be brought about
- 15 by including in the composition an agent which delays absorption, for example, aluminum monostearate and gelatin.

- Sterile injectable solutions can be prepared by incorporating the active compound (*e.g.*, a polypeptide or antibody) in the required amount in an appropriate solvent with one or a combination of ingredients enumerated above, as required,
- 20 followed by filtered sterilization. Generally, dispersions are prepared by incorporating the active compound into a sterile vehicle which contains a basic dispersion medium, and then incorporating the required other ingredients from those enumerated above. In the case of sterile powders for the preparation of sterile injectable solutions, the preferred methods of preparation are vacuum drying and freeze-drying which yields a
- 25 powder of the active ingredient plus any additional desired ingredient from a previously sterile-filtered solution thereof.

- Oral compositions generally include an inert diluent or an edible carrier. They can be enclosed in gelatin capsules or compressed into tablets. For the purpose of oral therapeutic administration, the active compound can be incorporated with excipients and
- 30 used in the form of tablets, troches, or capsules. Oral compositions can also be prepared using a fluid carrier for use as a mouthwash, wherein the compound in the fluid carrier is applied orally and swished and expectorated or swallowed.

- 74 -

Pharmaceutically compatible binding agents, and/or adjuvant materials can be included as part of the composition. The tablets, pills, capsules, troches, and the like can contain any of the following ingredients, or compounds of a similar nature: a binder such as microcrystalline cellulose, gum tragacanth or gelatin; an excipient such as starch or lactose, a disintegrating agent such as alginic acid, Primogel, or corn starch; a
5 lubricant such as magnesium stearate or Sterotes; a glidant such as colloidal silicon dioxide; a sweetening agent such as sucrose or saccharin; or a flavoring agent such as peppermint, methyl salicylate, or orange flavoring.

For administration by inhalation, the compounds are delivered in the form of an
10 aerosol spray from a pressurized container or dispenser which contains a suitable propellant, *e.g.*, a gas such as carbon dioxide, or a nebulizer.

Systemic administration can also be by transmucosal or transdermal means. For transmucosal or transdermal administration, penetrants appropriate to the barrier to be permeated are used in the formulation. Such penetrants are generally known in the art,
15 and include, for example, for transmucosal administration, detergents, bile salts, and fusidic acid derivatives. Transmucosal administration can be accomplished through the use of nasal sprays or suppositories. For transdermal administration, the active compounds are formulated into ointments, salves, gels, or creams as generally known in the art.

20 The compounds can also be prepared in the form of suppositories (*e.g.*, with conventional suppository bases such as cocoa butter and other glycerides) or retention enemas for rectal delivery.

In one embodiment, the active compounds are prepared with carriers that will protect the compound against rapid elimination from the body, such as a controlled
25 release formulation, including implants and microencapsulated delivery systems. Biodegradable, biocompatible polymers can be used, such as ethylene vinyl acetate, polyanhydrides, polyglycolic acid, collagen, polyorthoesters, and polylactic acid. Methods for preparation of such formulations will be apparent to those skilled in the art. The materials can also be obtained commercially from Alza Corporation and Nova
30 Pharmaceuticals, Inc. Liposomal suspensions (including liposomes having monoclonal antibodies incorporated therein or thereon) can also be used as pharmaceutically

acceptable carriers. These can be prepared according to methods known to those skilled in the art, for example, as described in U.S. Patent No. 4,522,811.

It is especially advantageous to formulate oral or parenteral compositions in dosage unit form for ease of administration and uniformity of dosage. Dosage unit form
5 as used herein refers to physically discrete units suited as unitary dosages for the subject to be treated; each unit containing a predetermined quantity of active compound calculated to produce the desired therapeutic effect in association with the required pharmaceutical carrier. The specification for the dosage unit forms of the invention are dictated by and directly dependent on the unique characteristics of the active compound
10 and the particular therapeutic effect to be achieved, and the limitations inherent in the art of compounding such an active compound for the treatment of individuals.

For antibodies, the preferred dosage is 0.1 mg/kg to 100 mg/kg of body weight (generally 10 mg/kg to 20 mg/kg). If the antibody is to act in the brain, a dosage of 50 mg/kg to 100 mg/kg is usually appropriate. Generally, partially human antibodies and
15 fully human antibodies have a longer half-life within the human body than other antibodies. Accordingly, lower dosages and less frequent administration is often possible. Modifications such as lipidation can be used to stabilize antibodies and to enhance uptake and tissue penetration (*e.g.*, into the cervical epithelium). A method for lipidation of antibodies is described by Cruikshank *et al.* (1997) *J. Acquired Immune*
20 *Deficiency Syndromes and Human Retrovirology* 14:193.

The nucleic acid molecules corresponding to a marker of the invention can be inserted into vectors and used as gene therapy vectors. Gene therapy vectors can be delivered to a subject by, for example, intravenous injection, local administration (U.S. Patent 5,328,470), or by stereotactic injection (see, *e.g.*, Chen *et al.*, 1994, *Proc. Natl.*
25 *Acad. Sci. USA* 91:3054-3057). The pharmaceutical preparation of the gene therapy vector can include the gene therapy vector in an acceptable diluent, or can comprise a slow release matrix in which the gene delivery vehicle is imbedded. Alternatively, where the complete gene delivery vector can be produced intact from recombinant cells, *e.g.* retroviral vectors, the pharmaceutical preparation can include one or more cells
30 which produce the gene delivery system.

The pharmaceutical compositions can be included in a container, pack, or dispenser together with instructions for administration.

V. Computer Readable Means and Arrays

Computer readable media comprising a marker(s) of the present invention is also provided. As used herein, "computer readable media" refers to any medium that can be read and accessed directly by a computer. Such media include, but are not limited to:

- 5 magnetic storage media, such as floppy discs, hard disc storage medium, and magnetic tape; optical storage media such as CD-ROM; electrical storage media such as RAM and ROM; and hybrids of these categories such as magnetic/optical storage media. The skilled artisan will readily appreciate how any of the presently known computer readable mediums can be used to create a manufacture comprising computer readable medium
10 having recorded thereon a marker of the present invention.

As used herein, "recorded" refers to a process for storing information on computer readable medium. Those skilled in the art can readily adopt any of the presently known methods for recording information on computer readable medium to generate manufactures comprising the markers of the present invention.

- 15 A variety of data processor programs and formats can be used to store the marker information of the present invention on computer readable medium. For example, the nucleic acid sequence corresponding to the markers can be represented in a word processing text file, formatted in commercially-available software such as WordPerfect and MicroSoft Word, or represented in the form of an ASCII file, stored in a database
20 application, such as DB2, Sybase, Oracle, or the like. Any number of dataprocessor structuring formats (e.g., text file or database) may be adapted in order to obtain computer readable medium having recorded thereon the markers of the present invention.

- By providing the markers of the invention in computer readable form, one can
25 routinely access the marker sequence information for a variety of purposes. For example, one skilled in the art can use the nucleotide or amino acid sequences of the invention in computer readable form to compare a target sequence or target structural motif with the sequence information stored within the data storage means. Search means are used to identify fragments or regions of the sequences of the invention which
30 match a particular target sequence or target motif.

The invention also includes an array comprising a marker(s) of the present invention. The array can be used to assay expression of one or more genes in the array. In one embodiment, the array can be used to assay gene expression in a tissue to ascertain tissue specificity of genes in the array. In this manner, up to about 7600 genes
5 can be simultaneously assayed for expression. This allows a profile to be developed showing a battery of genes specifically expressed in one or more tissues.

In addition to such qualitative determination, the invention allows the quantitation of gene expression. Thus, not only tissue specificity, but also the level of expression of a battery of genes in the tissue is ascertainable. Thus, genes can be
10 grouped on the basis of their tissue expression *per se* and level of expression in that tissue. This is useful, for example, in ascertaining the relationship of gene expression between or among tissues. Thus, one tissue can be perturbed and the effect on gene expression in a second tissue can be determined. In this context, the effect of one cell type on another cell type in response to a biological stimulus can be determined. Such a
15 determination is useful, for example, to know the effect of cell-cell interaction at the level of gene expression. If an agent is administered therapeutically to treat one cell type but has an undesirable effect on another cell type, the invention provides an assay to determine the molecular basis of the undesirable effect and thus provides the opportunity to co-administer a counteracting agent or otherwise treat the undesired
20 effect. Similarly, even within a single cell type, undesirable biological effects can be determined at the molecular level. Thus, the effects of an agent on expression of other than the target gene can be ascertained and counteracted.

In another embodiment, the array can be used to monitor the time course of expression of one or more genes in the array. This can occur in various biological
25 contexts, as disclosed herein, for example development and differentiation, tumor progression, progression of other diseases, *in vitro* processes, such a cellular transformation and senescence, autonomic neural and neurological processes, such as, for example, pain and appetite, and cognitive functions, such as learning or memory.

The array is also useful for ascertaining the effect of the expression of a gene on
30 the expression of other genes in the same cell or in different cells. This provides, for example, for a selection of alternate molecular targets for therapeutic intervention if the ultimate or downstream target cannot be regulated.

The array is also useful for ascertaining differential expression patterns of one or more genes in normal and abnormal cells. This provides a battery of genes that could serve as a molecular target for diagnosis or therapeutic intervention.

5 VI. Predictive Medicine

The present invention pertains to the field of predictive medicine in which diagnostic assays, prognostic assays, pharmacogenomics, and monitoring clinical trails are used for prognostic (predictive) purposes to thereby treat an individual prophylactically. Accordingly, one aspect of the present invention relates to diagnostic
10 assays for determining the level of expression of polypeptides or nucleic acids corresponding to one or more markers of the invention, in order to determine whether an individual is at risk of developing cervical cancer. Such assays can be used for prognostic or predictive purposes to thereby prophylactically treat an individual prior to the onset of the cancer.

15 Yet another aspect of the invention pertains to monitoring the influence of agents (*e.g.*, drugs or other compounds administered either to inhibit cervical cancer or to treat or prevent any other disorder {*i.e.* in order to understand any cervical carcinogenic effects that such treatment may have}) on the expression or activity of a marker of the invention in clinical trials. These and other agents are described in further detail in the
20 following sections.

A. Diagnostic Assays

An exemplary method for detecting the presence or absence of a polypeptide or nucleic acid corresponding to a marker of the invention in a biological sample involves
25 obtaining a biological sample (*e.g.* a cervical smear) from a test subject and contacting the biological sample with a compound or an agent capable of detecting the polypeptide or nucleic acid (*e.g.*, mRNA, genomic DNA, or cDNA). The detection methods of the invention can thus be used to detect mRNA, protein, cDNA, or genomic DNA, for example, in a biological sample *in vitro* as well as *in vivo*. For example, *in vitro*
30 techniques for detection of mRNA include Northern hybridizations and *in situ* hybridizations. *In vitro* techniques for detection of a polypeptide corresponding to a marker of the invention include enzyme linked immunosorbent assays (ELISAs),

Western blots, immunoprecipitations, immunohistochemistry and immunofluorescence.

In vitro techniques for detection of genomic DNA include Southern hybridizations.

Furthermore, *in vivo* techniques for detection of a polypeptide corresponding to a marker of the invention include introducing into a subject a labeled antibody directed against the polypeptide. For example, the antibody can be labeled with a radioactive marker whose presence and location in a subject can be detected by standard imaging techniques.

A general principle of such diagnostic and prognostic assays involves preparing a sample or reaction mixture that may contain a marker, and a probe, under appropriate conditions and for a time sufficient to allow the marker and probe to interact and bind, thus forming a complex that can be removed and/or detected in the reaction mixture. These assays can be conducted in a variety of ways.

For example, one method to conduct such an assay would involve anchoring the marker or probe onto a solid phase support, also referred to as a substrate, and detecting target marker/probe complexes anchored on the solid phase at the end of the reaction. In one embodiment of such a method, a sample from a subject, which is to be assayed for presence and/or concentration of marker, can be anchored onto a carrier or solid phase support. In another embodiment, the reverse situation is possible, in which the probe can be anchored to a solid phase and a sample from a subject can be allowed to react as an unanchored component of the assay.

There are many established methods for anchoring assay components to a solid phase. These include, without limitation, marker or probe molecules which are immobilized through conjugation of biotin and streptavidin. Such biotinylated assay components can be prepared from biotin-NHS (N-hydroxy-succinimide) using techniques known in the art (e.g., biotinylation kit, Pierce Chemicals, Rockford, IL), and immobilized in the wells of streptavidin-coated 96 well plates (Pierce Chemical). In certain embodiments, the surfaces with immobilized assay components can be prepared in advance and stored.

Other suitable carriers or solid phase supports for such assays include any material capable of binding the class of molecule to which the marker or probe belongs. Well-known supports or carriers include, but are not limited to, glass, polystyrene, nylon, polypropylene, nylon, polyethylene, dextran, amylases, natural and modified celluloses, polyacrylamides, gabbros, and magnetite.

In order to conduct assays with the above mentioned approaches, the non-immobilized component is added to the solid phase upon which the second component is anchored. After the reaction is complete, uncomplexed components may be removed (*e.g.*, by washing) under conditions such that any complexes formed will remain
5 immobilized upon the solid phase. The detection of marker/probe complexes anchored to the solid phase can be accomplished in a number of methods outlined herein.

In a preferred embodiment, the probe, when it is the unanchored assay component, can be labeled for the purpose of detection and readout of the assay, either directly or indirectly, with detectable labels discussed herein and which are well-known
10 to one skilled in the art.

It is also possible to directly detect marker/probe complex formation without further manipulation or labeling of either component (marker or probe), for example by utilizing the technique of fluorescence energy transfer (see, for example, Lakowicz *et al.*, U.S. Patent No. 5,631,169; Stavrianopoulos, *et al.*, U.S. Patent No. 4,868,103). A
15 fluorophore label on the first, 'donor' molecule is selected such that, upon excitation with incident light of appropriate wavelength, its emitted fluorescent energy will be absorbed by a fluorescent label on a second 'acceptor' molecule, which in turn is able to fluoresce due to the absorbed energy. Alternately, the 'donor' protein molecule may simply utilize the natural fluorescent energy of tryptophan residues. Labels are chosen
20 that emit different wavelengths of light, such that the 'acceptor' molecule label may be differentiated from that of the 'donor'. Since the efficiency of energy transfer between the labels is related to the distance separating the molecules, spatial relationships between the molecules can be assessed. In a situation in which binding occurs between the molecules, the fluorescent emission of the 'acceptor' molecule label in the assay
25 should be maximal. An FET binding event can be conveniently measured through standard fluorometric detection means well known in the art (*e.g.*, using a fluorimeter).

In another embodiment, determination of the ability of a probe to recognize a marker can be accomplished without labeling either assay component (probe or marker) by utilizing a technology such as real-time Biomolecular Interaction Analysis (BIA)
30 (see, *e.g.*, Sjolander, S. and Urbaniczky, C., 1991, *Anal. Chem.* 63:2338-2345 and Szabo *et al.*, 1995, *Curr. Opin. Struct. Biol.* 5:699-705). As used herein, "BIA" or "surface plasmon resonance" is a technology for studying biospecific interactions in real

time, without labeling any of the interactants (e.g., BIAcore). Changes in the mass at the binding surface (indicative of a binding event) result in alterations of the refractive index of light near the surface (the optical phenomenon of surface plasmon resonance (SPR)), resulting in a detectable signal which can be used as an indication of real-time reactions
5 between biological molecules.

Alternatively, in another embodiment, analogous diagnostic and prognostic assays can be conducted with marker and probe as solutes in a liquid phase. In such an assay, the complexed marker and probe are separated from uncomplexed components by any of a number of standard techniques, including but not limited to: differential
10 centrifugation, chromatography, electrophoresis and immunoprecipitation. In differential centrifugation, marker/probe complexes may be separated from uncomplexed assay components through a series of centrifugal steps, due to the different sedimentation equilibria of complexes based on their different sizes and densities (see, for example, Rivas, G., and Minton, A.P., 1993, *Trends Biochem Sci.* 18(8):284-7).
15 Standard chromatographic techniques may also be utilized to separate complexed molecules from uncomplexed ones. For example, gel filtration chromatography separates molecules based on size, and through the utilization of an appropriate gel filtration resin in a column format, for example, the relatively larger complex may be separated from the relatively smaller uncomplexed components. Similarly, the
20 relatively different charge properties of the marker/probe complex as compared to the uncomplexed components may be exploited to differentiate the complex from uncomplexed components, for example through the utilization of ion-exchange chromatography resins. Such resins and chromatographic techniques are well known to one skilled in the art (see, e.g., Heegaard, N.H., 1998, *J. Mol. Recognit.* Winter 11(1-
25 6):141-8; Hage, D.S., and Tweed, S.A. *J Chromatogr B Biomed Sci Appl* 1997 Oct 10;699(1-2):499-525). Gel electrophoresis may also be employed to separate complexed assay components from unbound components (see, e.g., Ausubel *et al.*, ed., *Current Protocols in Molecular Biology*, John Wiley & Sons, New York, 1987-1999). In this technique, protein or nucleic acid complexes are separated based on size or
30 charge, for example. In order to maintain the binding interaction during the electrophoretic process, non-denaturing gel matrix materials and conditions in the

absence of reducing agent are typically preferred. Appropriate conditions to the particular assay and components thereof will be well known to one skilled in the art.

In a particular embodiment, the level of mRNA corresponding to the marker can be determined both by *in situ* and by *in vitro* formats in a biological sample using
5 methods known in the art. The term "biological sample" is intended to include tissues, cells, biological fluids and isolates thereof, isolated from a subject, as well as tissues, cells and fluids present within a subject. Many expression detection methods use isolated RNA. For *in vitro* methods, any RNA isolation technique that does not select against the isolation of mRNA can be utilized for the purification of RNA from cervical
10 cells (see, *e.g.*, Ausubel *et al.*, ed., *Current Protocols in Molecular Biology*, John Wiley & Sons, New York 1987-1999). Additionally, large numbers of tissue samples can readily be processed using techniques well known to those of skill in the art, such as, for example, the single-step RNA isolation process of Chomczynski (1989, U.S. Patent No. 4,843,155).

15 The isolated mRNA can be used in hybridization or amplification assays that include, but are not limited to, Southern or Northern analyses, polymerase chain reaction analyses and probe arrays. One preferred diagnostic method for the detection of mRNA levels involves contacting the isolated mRNA with a nucleic acid molecule (probe) that can hybridize to the mRNA encoded by the gene being detected. The nucleic acid probe
20 can be, for example, a full-length cDNA, or a portion thereof, such as an oligonucleotide of at least 7, 15, 30, 50, 100, 250 or 500 nucleotides in length and sufficient to specifically hybridize under stringent conditions to a mRNA or genomic DNA encoding a marker of the present invention. Other suitable probes for use in the diagnostic assays of the invention are described herein. Hybridization of an mRNA with the probe
25 indicates that the marker in question is being expressed.

In one format, the mRNA is immobilized on a solid surface and contacted with a probe, for example by running the isolated mRNA on an agarose gel and transferring the mRNA from the gel to a membrane, such as nitrocellulose. In an alternative format, the probe(s) are immobilized on a solid surface and the mRNA is contacted with the
30 probe(s), for example, in an Affymetrix gene chip array. A skilled artisan can readily adapt known mRNA detection methods for use in detecting the level of mRNA encoded by the markers of the present invention.

An alternative method for determining the level of mRNA corresponding to a marker of the present invention in a sample involves the process of nucleic acid amplification, *e.g.*, by rtPCR (the experimental embodiment set forth in Mullis, 1987, U.S. Patent No. 4,683,202), ligase chain reaction (Barany, 1991, *Proc. Natl. Acad. Sci. USA*, 88:189-193), self sustained sequence replication (Guatelli *et al.*, 1990, *Proc. Natl. Acad. Sci. USA* 87:1874-1878), transcriptional amplification system (Kwoh *et al.*, 1989, *Proc. Natl. Acad. Sci. USA* 86:1173-1177), Q-Beta Replicase (Lizardi *et al.*, 1988, *Bio/Technology* 6:1197), rolling circle replication (Lizardi *et al.*, U.S. Patent No. 5,854,033) or any other nucleic acid amplification method, followed by the detection of the amplified molecules using techniques well known to those of skill in the art. These detection schemes are especially useful for the detection of nucleic acid molecules if such molecules are present in very low numbers. As used herein, amplification primers are defined as being a pair of nucleic acid molecules that can anneal to 5' or 3' regions of a gene (plus and minus strands, respectively, or vice-versa) and contain a short region in between. In general, amplification primers are from about 10 to 30 nucleotides in length and flank a region from about 50 to 200 nucleotides in length. Under appropriate conditions and with appropriate reagents, such primers permit the amplification of a nucleic acid molecule comprising the nucleotide sequence flanked by the primers.

For *in situ* methods, mRNA does not need to be isolated from the cervical cells prior to detection. In such methods, a cell or tissue sample is prepared/processed using known histological methods. The sample is then immobilized on a support, typically a glass slide, and then contacted with a probe that can hybridize to mRNA that encodes the marker.

As an alternative to making determinations based on the absolute expression level of the marker, determinations may be based on the normalized expression level of the marker. Expression levels are normalized by correcting the absolute expression level of a marker by comparing its expression to the expression of a gene that is not a marker, *e.g.*, a housekeeping gene that is constitutively expressed. Suitable genes for normalization include housekeeping genes such as the actin gene, or epithelial cell-specific genes. This normalization allows the comparison of the expression level in one sample, *e.g.*, a patient sample, to another sample, *e.g.*, a non-cervical cancer sample, or between samples from different sources.

Alternatively, the expression level can be provided as a relative expression level. To determine a relative expression level of a marker, the level of expression of the marker is determined for 10 or more samples of normal versus cancer cell isolates, preferably 50 or more samples, prior to the determination of the expression level for the sample in question. The mean expression level of each of the genes assayed in the larger number of samples is determined and this is used as a baseline expression level for the marker. The expression level of the marker determined for the test sample (absolute level of expression) is then divided by the mean expression value obtained for that marker. This provides a relative expression level.

10 Preferably, the samples used in the baseline determination will be from cervical cancer or from non-cervical cancer cells of cervical tissue. The choice of the cell source is dependent on the use of the relative expression level. Using expression found in normal tissues as a mean expression score aids in validating whether the marker assayed is cervical specific (versus normal cells). In addition, as more data is accumulated, the mean expression value can be revised, providing improved relative expression values based on accumulated data. Expression data from cervical cells provides a means for grading the severity of the cervical cancer state.

 In another embodiment of the present invention, a polypeptide corresponding to a marker is detected. A preferred agent for detecting a polypeptide of the invention is an antibody capable of binding to a polypeptide corresponding to a marker of the invention, preferably an antibody with a detectable label. Antibodies can be polyclonal, or more preferably, monoclonal. An intact antibody, or a fragment thereof (*e.g.*, Fab or F(ab')₂) can be used. The term "labeled", with regard to the probe or antibody, is intended to encompass direct labeling of the probe or antibody by coupling (*i.e.*, physically linking) a detectable substance to the probe or antibody, as well as indirect labeling of the probe or antibody by reactivity with another reagent that is directly labeled. Examples of indirect labeling include detection of a primary antibody using a fluorescently labeled secondary antibody and end-labeling of a DNA probe with biotin such that it can be detected with fluorescently labeled streptavidin.

30 Proteins from cervical cells can be isolated using techniques that are well known to those of skill in the art. The protein isolation methods employed can, for example, be such as those described in Harlow and Lane (Harlow and Lane, 1988, *Antibodies: A*

Laboratory Manual, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York).

A variety of formats can be employed to determine whether a sample contains a protein that binds to a given antibody. Examples of such formats include, but are not limited to, enzyme immunoassay (EIA), radioimmunoassay (RIA), Western blot analysis, immunohistochemistry (IHC) and enzyme linked immunoabsorbant assay (ELISA). A skilled artisan can readily adapt known protein/antibody detection methods for use in determining whether cervical cells express a marker of the present invention.

In one format, antibodies, or antibody fragments, can be used in methods such as Western blots, IHC or immunofluorescence techniques to detect the expressed proteins. In such uses, it is generally preferable to immobilize either the antibody, proteins or cell containing proteins on a solid support. Well-known supports or carriers include glass, polystyrene, polypropylene, polyethylene, dextran, nylon, amylases, natural and modified celluloses, polyacrylamides, gabbros, and magnetite.

One skilled in the art will know many other suitable carriers for binding antibody or antigen, and will be able to adapt such support for use with the present invention. For example, protein isolated from cervical cells can be run on a polyacrylamide gel electrophoresis and immobilized onto a solid phase support such as nitrocellulose. The support can then be washed with suitable buffers followed by treatment with the detectably labeled antibody. The solid phase support can then be washed with the buffer a second time to remove unbound antibody. The amount of bound label on the solid support can then be detected by conventional means.

The invention also encompasses kits for detecting the presence of a polypeptide or nucleic acid corresponding to a marker of the invention in a biological sample (e.g. a cervical smear). Such kits can be used to determine if a subject is suffering from or is at increased risk of developing cervical cancer. For example, the kit can comprise a labeled compound or agent capable of detecting a polypeptide or an mRNA encoding a polypeptide corresponding to a marker of the invention in a biological sample and means for determining the amount of the polypeptide or mRNA in the sample (e.g., an antibody which binds the polypeptide or an oligonucleotide probe which binds to DNA or mRNA encoding the polypeptide). Kits can also include instructions for interpreting the results obtained using the kit.

- 86 -

For antibody-based kits, the kit can comprise, for example: (1) a first antibody (*e.g.*, attached to a solid support) which binds to a polypeptide corresponding to a marker of the invention; and, optionally, (2) a second, different antibody which binds to either the polypeptide or the first antibody and is conjugated to a detectable label.

- 5 For oligonucleotide-based kits, the kit can comprise, for example: (1) an oligonucleotide, *e.g.*, a detectably labeled oligonucleotide, which hybridizes to a nucleic acid sequence encoding a polypeptide corresponding to a marker of the invention or (2) a pair of primers useful for amplifying a nucleic acid molecule corresponding to a marker of the invention. The kit can also comprise, *e.g.*, a buffering agent, a
10 preservative, or a protein stabilizing agent. The kit can further comprise components necessary for detecting the detectable label (*e.g.*, an enzyme or a substrate). The kit can also contain a control sample or a series of control samples which can be assayed and compared to the test sample. Each component of the kit can be enclosed within an individual container and all of the various containers can be within a single package,
15 along with instructions for interpreting the results of the assays performed using the kit.

B. Pharmacogenomics

- Agents or modulators which have a stimulatory or inhibitory effect on expression of a marker of the invention can be administered to individuals to treat (prophylactically
20 or therapeutically) cervical cancer in the patient. In conjunction with such treatment, the pharmacogenomics (*i.e.*, the study of the relationship between an individual's genotype and that individual's response to a foreign compound or drug) of the individual may be considered. Differences in metabolism of therapeutics can lead to severe toxicity or therapeutic failure by altering the relation between dose and blood concentration of the
25 pharmacologically active drug. Thus, the pharmacogenomics of the individual permits the selection of effective agents (*e.g.*, drugs) for prophylactic or therapeutic treatments based on a consideration of the individual's genotype. Such pharmacogenomics can further be used to determine appropriate dosages and therapeutic regimens.
- Accordingly, the level of expression of a marker of the invention in an individual can be
30 determined to thereby select appropriate agent(s) for therapeutic or prophylactic treatment of the individual.

Pharmacogenomics deals with clinically significant variations in the response to drugs due to altered drug disposition and abnormal action in affected persons. See, e.g., Linder (1997) *Clin. Chem.* 43(2):254-266. In general, two types of pharmacogenetic conditions can be differentiated. Genetic conditions transmitted as a single factor
5 altering the way drugs act on the body are referred to as "altered drug action." Genetic conditions transmitted as single factors altering the way the body acts on drugs are referred to as "altered drug metabolism". These pharmacogenetic conditions can occur either as rare defects or as polymorphisms. For example, glucose-6-phosphate dehydrogenase (G6PD) deficiency is a common inherited enzymopathy in which the
10 main clinical complication is hemolysis after ingestion of oxidant drugs (anti-malarials, sulfonamides, analgesics, nitrofurans) and consumption of fava beans.

As an illustrative embodiment, the activity of drug metabolizing enzymes is a major determinant of both the intensity and duration of drug action. The discovery of genetic polymorphisms of drug metabolizing enzymes (e.g., N-acetyltransferase 2 (NAT
15 2) and cytochrome P450 enzymes CYP2D6 and CYP2C19) has provided an explanation as to why some patients do not obtain the expected drug effects or show exaggerated drug response and serious toxicity after taking the standard and safe dose of a drug. These polymorphisms are expressed in two phenotypes in the population, the extensive metabolizer (EM) and poor metabolizer (PM). The prevalence of PM is different among
20 different populations. For example, the gene coding for CYP2D6 is highly polymorphic and several mutations have been identified in PM, which all lead to the absence of functional CYP2D6. Poor metabolizers of CYP2D6 and CYP2C19 quite frequently experience exaggerated drug response and side effects when they receive standard doses. If a metabolite is the active therapeutic moiety, a PM will show no therapeutic
25 response, as demonstrated for the analgesic effect of codeine mediated by its CYP2D6-formed metabolite morphine. The other extreme are the so called ultra-rapid metabolizers who do not respond to standard doses. Recently, the molecular basis of ultra-rapid metabolism has been identified to be due to CYP2D6 gene amplification.

Thus, the level of expression of a marker of the invention in an individual can be
30 determined to thereby select appropriate agent(s) for therapeutic or prophylactic treatment of the individual. In addition, pharmacogenetic studies can be used to apply genotyping of polymorphic alleles encoding drug-metabolizing enzymes to the

identification of an individual's drug responsiveness phenotype. This knowledge, when applied to dosing or drug selection, can avoid adverse reactions or therapeutic failure and thus enhance therapeutic or prophylactic efficiency when treating a subject with a modulator of expression of a marker of the invention.

5 This invention also provides a process for preparing a database comprising at least one of the markers set forth in Tables 1-4. For example, the polynucleotide sequences are stored in a digital storage medium such that a data processing system for standardized representation of the genes that identify a cervical cancer cell is compiled. The data processing system is useful to analyze gene expression between two cells by
10 first selecting a cell suspected of being of a neoplastic phenotype or genotype and then isolating polynucleotides from the cell. The isolated polynucleotides are sequenced. The sequences from the sample are compared with the sequence(s) present in the database using homology search techniques. Greater than 90%, more preferably greater than 95% and more preferably, greater than or equal to 97% sequence identity between
15 the test sequence and the polynucleotides of the present invention is a positive indication that the polynucleotide has been isolated from a cervical cancer cell as defined above.

 In an alternative embodiment, the polynucleotides of this invention are sequenced and the information regarding sequence and in some embodiments, relative expression, is stored in any functionally relevant program, *e.g.*, in Compare Report using
20 the SAGE software (available through Dr. Ken Kinzler at John Hopkins University). The Compare Report provides a tabulation of the polynucleotide sequences and their abundance for the samples normalized to a defined number of polynucleotides per library (say 25,000). This is then imported into MS-ACCESS either directly or via copying the data into an Excel spreadsheet first and then from there into MS-ACCESS
25 for additional manipulations. Other programs such as SYBASE or Oracle that permit the comparison of polynucleotide numbers could be used as alternatives to MS-ACCESS. Enhancements to the software can be designed to incorporate these additional functions. These functions consist in standard Boolean, algebraic, and text search operations, applied in various combinations to reduce a large input set of
30 polynucleotides to a manageable subset of a polynucleotide of specifically defined interest.

One skilled in the art may create groups containing one or more project(s) by combining the counts of specific polynucleotides within a group (*e.g.*, GroupNormal = Normal1 + Normal2, GroupTumor1 + TumorCellLine). Additional characteristic values are also calculated for each tag in the group (*e.g.*, average count, minimum count, maximum count). One skilled in the art may calculate individual tag count ratios between groups, for example the ratio of the average GroupNormal count to the average GroupTumor count for each polynucleotide. A statistical measure of the significance of observed differences in tag counts between groups may be calculated.

10 C. Monitoring Clinical Trials

Monitoring the influence of agents (*e.g.*, drug compounds) on the level of expression of a marker of the invention can be applied not only in basic drug screening, but also in clinical trials. For example, the effectiveness of an agent to affect marker expression can be monitored in clinical trials of subjects receiving treatment for cervical cancer. In a preferred embodiment, the present invention provides a method for monitoring the effectiveness of treatment of a subject with an agent (*e.g.*, an agonist, antagonist, peptidomimetic, protein, peptide, nucleic acid, small molecule, or other drug candidate) comprising the steps of (i) obtaining a pre-administration sample from a subject prior to administration of the agent; (ii) detecting the level of expression of one or more selected markers of the invention in the pre-administration sample; (iii) obtaining one or more post-administration samples from the subject; (iv) detecting the level of expression of the marker(s) in the post-administration samples; (v) comparing the level of expression of the marker(s) in the pre-administration sample with the level of expression of the marker(s) in the post-administration sample or samples; and (vi) altering the administration of the agent to the subject accordingly. For example, increased administration of the agent can be desirable to increase expression of the marker(s) to higher levels than detected, *i.e.*, to increase the effectiveness of the agent. Alternatively, decreased administration of the agent can be desirable to decrease expression of the marker(s) to lower levels than detected, *i.e.*, to decrease the effectiveness of the agent.

D. Surrogate Markers

The markers of the invention may serve as surrogate markers for one or more disorders or disease states or for conditions leading up to disease states, and in particular, cervical cancer. As used herein, a “surrogate marker” is an objective biochemical marker which correlates with the absence or presence of a disease or disorder, or with the progression of a disease or disorder (*e.g.*, with the presence or absence of a tumor). The presence or quantity of such markers is independent of the disease. Therefore, these markers may serve to indicate whether a particular course of treatment is effective in lessening a disease state or disorder. Surrogate markers are of particular use when the presence or extent of a disease state or disorder is difficult to assess through standard methodologies (*e.g.*, early stage tumors), or when an assessment of disease progression is desired before a potentially dangerous clinical endpoint is reached (*e.g.*, an assessment of cardiovascular disease may be made using cholesterol levels as a surrogate marker, and an analysis of HIV infection may be made using HIV RNA levels as a surrogate marker, well in advance of the undesirable clinical outcomes of myocardial infarction or fully-developed AIDS). Examples of the use of surrogate markers in the art include: Koomen *et al.* (2000) *J. Mass. Spectrom.* 35: 258-264; and James (1994) *AIDS Treatment News Archive* 209.

The markers of the invention are also useful as pharmacodynamic markers. As used herein, a “pharmacodynamic marker” is an objective biochemical marker which correlates specifically with drug effects. The presence or quantity of a pharmacodynamic marker is not related to the disease state or disorder for which the drug is being administered; therefore, the presence or quantity of the marker is indicative of the presence or activity of the drug in a subject. For example, a pharmacodynamic marker may be indicative of the concentration of the drug in a biological tissue, in that the marker is either expressed or transcribed or not expressed or transcribed in that tissue in relationship to the level of the drug. In this fashion, the distribution or uptake of the drug may be monitored by the pharmacodynamic marker. Similarly, the presence or quantity of the pharmacodynamic marker may be related to the presence or quantity of the metabolic product of a drug, such that the presence or quantity of the marker is indicative of the relative breakdown rate of the drug *in vivo*. Pharmacodynamic markers are of particular use in increasing the sensitivity of detection

- 91 -

of drug effects, particularly when the drug is administered in low doses. Since even a small amount of a drug may be sufficient to activate multiple rounds of marker transcription or expression, the amplified marker may be in a quantity which is more readily detectable than the drug itself. Also, the marker may be more easily detected due to the nature of the marker itself; for example, using the methods described herein, antibodies may be employed in an immune-based detection system for a protein marker, or marker-specific radiolabeled probes may be used to detect a mRNA marker. Furthermore, the use of a pharmacodynamic marker may offer mechanism-based prediction of risk due to drug treatment beyond the range of possible direct observations. Examples of the use of pharmacodynamic markers in the art include: Matsuda *et al.* US 6,033,862; Hattis *et al.* (1991) *Env. Health Perspect.* 90: 229-238; Schentag (1999) *Am. J. Health-Syst. Pharm.* 56 Suppl. 3: S21-S24; and Nicolau (1999) *Am. J. Health-Syst. Pharm.* 56 Suppl. 3: S16-S20.

The markers of the invention are also useful as pharmacogenomic markers. As used herein, a "pharmacogenomic marker" is an objective biochemical marker which correlates with a specific clinical drug response or susceptibility in a subject (see, e.g., McLeod *et al.* (1999) *Eur. J. Cancer* 35(12): 1650-1652). The presence or quantity of the pharmacogenomic marker is related to the predicted response of the subject to a specific drug or class of drugs prior to administration of the drug. By assessing the presence or quantity of one or more pharmacogenomic markers in a subject, a drug therapy which is most appropriate for the subject, or which is predicted to have a greater degree of success, may be selected. For example, based on the presence or quantity of RNA or protein for specific tumor markers in a subject, a drug or course of treatment may be selected that is optimized for the treatment of the specific tumor likely to be present in the subject. Similarly, the presence or absence of a specific sequence mutation in marker DNA may correlate with drug response. The use of pharmacogenomic markers therefore permits the application of the most appropriate treatment for each subject without having to administer the therapy.

VII. Experimental Protocol

A. Subtracted Libraries

Subtracted libraries are generated using a PCR based method that allows the
5 isolation of clones expressed at higher levels in one population of mRNA (tester)
compared to another population (driver). Both tester and driver mRNA populations are
converted into cDNA by reverse transcription, and then PCR amplified using the
SMART PCR kit from Clontech. Tester and driver cDNAs are then hybridized using
the PCR-Select cDNA subtraction kit from Clontech. This technique results in both
10 subtraction and normalization, which is an equalization of copy number of low-
abundance and high-abundance sequences. After generation of the subtractive libraries,
a group of 96 or more clones from each library is tested to confirm differential
expression by reverse Southern hybridization.

SEQ ID NOS: 1-705 were identified through the above-described subtractive
15 library hybridization technique, wherein the "tester" source for the subtracted libraries
was comprised of cDNA generated from four independent stage IB cervical tumors.
The "driver" source for the subtracted libraries was comprised of cDNA generated from
at least three independent samples of normal ectocervix that were manually dissected to
isolate the epithelial component of the tissue. In some cases, the driver also included
20 cDNA generated from B-lymphocytes, T-lymphocytes, and other white blood cells, in
activated and resting states.

SEQ ID NOS: 706-1428 were also identified through the above-described
subtractive library hybridization technique, wherein the "tester" source for the
subtracted libraries was comprised of cDNA generated from four independent CINIII
25 cervical samples. The "driver" source for the subtracted library was comprised of
cDNA generated from six independent normal ectocervix samples that were manually
dissected to isolate the epithelial components. The "driver" source also includes cDNA
generated from B-lymphocytes, T-lymphocytes, and other white blood cells, in activated
and resting states.

B. Proteomics

Proteins that are secreted by normal and transformed cells in culture are analyzed to identify those proteins that are likely to be secreted by cancerous cells into body fluids. Supernatants are isolated and MWT-CO filters are used to simplify the mixture of proteins. The proteins are then digested with trypsin. The tryptic peptides are loaded onto a microcapillary HPLC column where they are separated, and eluted directly into an ion trap mass spectrometer, through a custom-made electrospray ionization source. Throughout the gradient, sequence data is acquired through fragmentation of the four most intense ions (peptides) that elute off the column, while dynamically excluding those that have already been fragmented. In this way, approximately 2000 scans worth of sequence data are obtained, corresponding to approximately 50 to 200 different proteins in the sample. These data are searched against databases using correlation analysis tools, such as MS-Tag, to identify the proteins in the supernatants.

VIII . Summary Of The Data Provided In The Tables

Table 1 shows 1428 novel nucleotide sequences identified through subtracted library experiments. These 1428 novel sequences were determined to be novel through various BLAST searches of available databases. The sequences of Table 1 were reinterpreted and those sequences are set forth in Tables 2 and 3. Table 4 sets forth additional sequence (*e.g.*, full-length sequences) for the sequences of Tables 1-3.

The contents of all references, patents, published patent applications, and databases cited throughout this application are hereby incorporated by reference.

Other Embodiments

Those skilled in the art will recognize, or be able to ascertain using no more than routine experimentation, many equivalents to the specific embodiments of the invention described herein. Such equivalents are intended to be encompassed by the following claims.

What is claimed is:

- 94 -

Claims

1. An isolated nucleic acid molecule selected from the group consisting of:
 - a) a nucleic acid molecule comprising a nucleotide sequence which
5 is at least 90% homologous to a nucleotide sequence of Tables 1-4, or a complement thereof;
 - b) a nucleic acid molecule comprising a fragment of a nucleic acid comprising the nucleotide sequence of Tables 1-4, or a complement thereof; and
 - c) a nucleic acid molecule comprising the nucleotide sequence of
10 Tables 1-4, or a complement thereof.
2. A vector which contains the nucleic acid molecule of claim 1.
3. A host cell which contains the nucleic acid molecule of claim 1.
15
4. An isolated polypeptide which is encoded by a nucleic acid molecule comprising a nucleotide sequence which is at least 90% homologous to a nucleic acid comprising a nucleotide sequence of Tables 1-4.
- 20 5. An antibody which selectively binds to a polypeptide of claim 4.
6. A method for producing a polypeptide comprising culturing the host cell of claim 3 under conditions in which the nucleic acid molecule is expressed.
- 25 7. A method for detecting the presence of a polypeptide of claim 4 in a sample comprising:
 - a) contacting the sample with a compound which selectively binds to the polypeptide; and
 - b) determining whether the compound binds to the polypeptide in the
30 sample to thereby detect the presence of a polypeptide of claim 4 in the sample.

8. A kit comprising a compound which selectively binds to the polypeptide of claim 4.

5 9. A method for detecting the presence of a nucleic acid molecule of claim 1 in a sample comprising:

a) contacting the sample with a nucleic acid probe or primer which selectively hybridizes to the nucleic acid molecule; and

b) determining whether the nucleic acid probe or primer binds to a nucleic acid molecule in the sample to thereby detect the presence of a nucleic acid molecule of claim 1 in the sample.

10 10. The method of claim 9, wherein the sample comprises mRNA molecules and is contacted with a nucleic acid probe.

15

11. The method of claim 9, wherein the sample is isolated from cervical tissue.

12. The method of claim 9, wherein the sample is a tumor sample.

20

13. A kit comprising a compound which selectively hybridizes to a nucleic acid molecule of claim 1.

14. A method of assessing whether a patient is afflicted with cervical cancer or has a pre-malignant condition, the method comprising comparing:

25 a) the level of expression of a marker in a patient sample, wherein the marker is selected from the group consisting of the markers listed in Tables 1-4, and

b) the normal level of expression of the marker in a control non-cervical cancer sample,

30 wherein a significant difference between the level of expression of the marker in the patient sample and the normal level is an indication that the patient is afflicted with cervical cancer or has a pre-malignant condition.

- 96 -

15. The method of claim 14, wherein the patient has CIN.

16. The method of claim 14, wherein the patient has SIL.

5 17. The method of claim 14, wherein the marker corresponds to a secreted protein.

18. The method of claim 14, wherein the marker corresponds to a transcribed polynucleotide or portion thereof, wherein the polynucleotide comprises the marker.

10

19. The method of claim 14, wherein the sample comprises cells obtained from the patient.

20. The method of claim 19, wherein the sample is a cervical smear.

15

21. The method of claim 19, wherein the cells are in a fluid selected from the group consisting of a fluid collected by peritoneal rinsing, a fluid collected by uterine rinsing, a uterine fluid, a uterine exudate, a pleural fluid, a cystic fluid, and an cervical exudate.

20

22. The method of claim 14, wherein the level of expression of the marker in the sample is assessed by detecting the presence in the sample of a protein corresponding to the marker.

25 23. The method of claim 17, wherein the presence of the protein is detected using a reagent which specifically binds with the protein.

24. The method of claim 23, wherein the reagent is selected from the group consisting of an antibody, an antibody derivative, and an antibody fragment.

30

25. The method of claim 14, wherein the level of expression of the marker in the sample is assessed by detecting the presence in the sample of a transcribed polynucleotide or portion thereof, wherein the transcribed polynucleotide comprises the marker.

5

26. The method of claim 25, wherein the transcribed polynucleotide is an mRNA.

27. The method of claim 25, wherein the transcribed polynucleotide is a
10 cDNA.

28. The method of claim 25, wherein the step of detecting further comprises amplifying the transcribed polynucleotide.

15 29. The method of claim 14, wherein the level of expression of the marker in the sample is assessed by detecting the presence in the sample of a transcribed polynucleotide which anneals with the marker or anneals with a portion of a polynucleotide wherein the polynucleotide comprises the marker, under stringent hybridization conditions.

20

30. The method of claim 14, wherein the level of expression of the marker in the sample differs from the normal level of expression of the marker in a patient not afflicted with cervical cancer by a factor of at least about 2.

25 31. The method of claim 14, wherein the level of expression of the marker in the sample differs from the normal level of expression of the marker in a patient not afflicted with cervical cancer by a factor of at least about 5.

- 98 -

32. The method of claim 14, comprising comparing:
- a) the level of expression in the sample of each of a plurality of markers independently selected from the markers listed in Tables 1-4, and
 - b) the normal level of expression of each of the plurality of markers in
- 5 samples of the same type obtained from control humans not afflicted with cervical cancer,
- wherein the level of expression of more than one of the markers is significantly altered, relative to the corresponding normal levels of expression of the markers, is an indication that the patient is afflicted with cervical cancer or a pre-
- 10 malignant condition.
33. The method of claim 32, wherein the level of expression of each of the markers is significantly altered, relative to the corresponding normal levels of expression of the markers, is an indication that the patient is afflicted with cervical
- 15 cancer.
34. The method of claim 32, wherein the plurality comprises at least three of the markers.
- 20 35. The method of claim 32, wherein the plurality comprises at least five of the markers.
36. A method for monitoring the progression of cervical cancer or a pre-malignant condition in a patient, the method comprising:
- 25 a) detecting in a patient sample at a first point in time, the expression of a marker, wherein the marker is selected from the group consisting of the markers listed in Tables 1-4;
- b) repeating step a) at a subsequent point in time; and
 - c) comparing the level of expression detected in steps a) and b), and
- 30 therefrom monitoring the progression of cervical cancer or a pre-malignant condition in the patient.

- 99 -

37. The method of claim 36, wherein the marker corresponds to a secreted protein.

38. The method of claim 36, wherein marker corresponds to a transcribed
5 polynucleotide or portion thereof, wherein the polynucleotide comprises the marker.

39. The method of claim 36, wherein the sample comprises cells obtained from the patient.

10 40. The method of claim 39, wherein the patient sample is a cervical smear.

41. The method of claim 39, wherein between the first point in time and the subsequent point in time, the patient has undergone surgery to remove a tumor.

15 42. A method of assessing the efficacy of a test compound for inhibiting cervical cancer in a patient, the method comprising comparing:

a) expression of a marker in a first sample obtained from the patient and exposed to the test compound, wherein the marker is selected from the group consisting of the markers listed in Tables 1-4, and

20 b) expression of the marker in a second sample obtained from the patient, wherein the sample is not exposed to the test compound,

wherein a significantly lower level of expression of the marker in the first sample, relative to the second sample, is an indication that the test compound is efficacious for inhibiting cervical cancer in the patient.

25

43. The method of claim 42, wherein the first and second samples are portions of a single sample obtained from the patient.

44. The method of claim 42, wherein the first and second samples are
30 portions of pooled samples obtained from the patient.

- 100 -

45. A method of assessing the efficacy of a therapy for inhibiting cervical cancer in a patient, the method comprising comparing:

- a) expression of a marker in the first sample obtained from the patient prior to providing at least a portion of the therapy to the patient, wherein the marker is
5 selected from the group consisting of the markers listed in Tables 1-4, and
- b) expression of the marker in a second sample obtained from the patient following provision of the portion of the therapy,
wherein a significantly lower level of expression of the marker in the
second sample, relative to the first sample, is an indication that the therapy is efficacious
10 for inhibiting cervical cancer in the patient.

46. A method of selecting a composition for inhibiting cervical cancer in a patient, the method comprising:

- a) obtaining a sample comprising cancer cells from the patient;
- 15 b) separately exposing aliquots of the sample in the presence of a plurality of test compositions;
- c) comparing expression of a marker in each of the aliquots, wherein the marker is selected from the group consisting of the markers listed in Tables 1-4; and
- d) selecting one of the test compositions which induces a lower level of
20 expression of the marker in the aliquot containing that test composition, relative to other test compositions.

47. A method of inhibiting cervical cancer in a patient, the method comprising:

- 25 a) obtaining a sample comprising cancer cells from the patient;
- b) separately maintaining aliquots of the sample in the presence of a plurality of test compositions;
- c) comparing expression of a marker in each of the aliquots, wherein the marker is selected from the group consisting of the markers listed in Tables 1-4; and
- 30 d) administering to the patient at least one of the test compositions which induces a lower level of expression of the marker in the aliquot containing that test composition, relative to other test compositions.

- 101 -

48. A kit for assessing whether a patient is afflicted with cervical cancer or a pre-malignant condition, the kit comprising reagents for assessing expression of a marker selected from the group consisting of the markers listed in Tables 1-4.

5 49. A kit for assessing the presence of cervical cancer cells or pre-malignant cervical cells or lesions, the kit comprising a nucleic acid probe wherein the probe specifically binds with a transcribed polynucleotide corresponding to a marker selected from the group consisting of the markers listed in Tables 1-4.

10 50. A kit for assessing the suitability of each of a plurality of compounds for inhibiting cervical cancer in a patient, the kit comprising:
a) the plurality of compounds; and
b) a reagent for assessing expression of a marker selected from the group consisting of the markers listed in Tables 1-4.

15 51. A method of making an isolated hybridoma which produces an antibody useful for assessing whether a patient is afflicted with cervical cancer or a pre-malignant condition, the method comprising:

isolating a protein or protein fragment corresponding to a marker selected
20 from the group consisting of the markers listed in Tables 1-4;
immunizing a mammal using the isolated protein or protein fragment;
isolating splenocytes from the immunized mammal;
fusing the isolated splenocytes with an immortalized cell line to form
hybridomas; and
25 screening individual hybridomas for production of an antibody which specifically binds with the protein or protein fragment to isolate the hybridoma.

52. An antibody produced by a hybridoma made by the method of claim 51.

53. A kit for assessing the presence of human cervical cancer cells or pre-malignant cervical cells or lesions, the kit comprising an antibody, wherein the antibody specifically binds with a protein corresponding to a marker selected from the group consisting of the markers listed in Tables 1-4.

5

54. A method of assessing the cervical cell carcinogenic potential of a test compound, the method comprising:

a) maintaining separate aliquots of cervical cells in the presence and absence of the test compound; and

10 b) comparing expression of a marker in each of the aliquots, wherein the marker is selected from the group consisting of the markers listed in Tables 1-4,

wherein a significantly enhanced level of expression of the marker in the aliquot maintained in the presence of the test compound, relative to the aliquot maintained in the absence of the test compound, is an indication that the test compound

15 possesses human cervical cell carcinogenic potential.

55. A kit for assessing the cervical cell carcinogenic potential of a test compound, the kit comprising cervical cells and a reagent for assessing expression of a marker, wherein the marker is selected from the group consisting of the markers listed in

20 Tables 1-4.

56. A method of treating a patient afflicted with cervical cancer, the method comprising providing to the patient an antisense oligonucleotide complementary to a polynucleotide corresponding to a marker selected from the markers listed in Tables 1-4.

25

57. A method of inhibiting cervical cancer in a patient at risk for developing cervical cancer, the method comprising inhibiting expression of a gene corresponding to a marker selected from the markers listed in Tables 1-4.

Table 1

Sequence 1

GCCGAGGTACTTTTTTTTTTTTTTTTTTTGGACATACTGAGAGAATTTGGAATTATAT
GTTATGGTAGAATAAAGATCGAGGTCCATTTTCTATACATGAAAANTTAAATATTTAG
T
TTGGGATTTGAGACTTCGATCTAGGCCTCTGNATTTCTTTCTAGTTTTTCCCTACCAT
T
CTTTAATCGGAGTATCCAAGCCCAATCACCTGTANCCTATGTCCTAAAGCATCTTGAAT
TGNTTGNITCANGTTTTTNCCTCATGNAGGAGTGTCTTTGCNCACNCCTCTTAAGCC
TA
TCTGGATCCCCACTTCANNCCTCTGAAGGGTCTGTAAAANTTCTAACCCCTATCTNT
AT
NGAATTTGTCCCC

Sequence 2

GCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATTATGTC
CGCGAAACCAAGTTGGACTTACAGAGAGTCCAAGAACTATGATCCTGCTTTACATCCT
TTTGAGGTCCCACGAGAATATATAAGAGCTTTAAATGCTACCAAAGTGAACGAGTATTT
GCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAG
CATCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTTGG
AATCTAACTCAGCGGAATTGTATCCGTACCT

Sequence 3

CGGAGAGGAGTCCTTACTTAGAGTNAAGCTGAAGGAGCATCACAAACCCCAAAGACTGTTA
TGTTGTGAAATTTAGGCTGTGTTTAAATAACTGATGATGATANGATGAAATAGTAAT
T
TATTGATTACTATATCTACTATATGTCCGTAAGATAGCAGGGTCTTTATACTCGGAATC
T
CATTTGATCCTCATAGTTTTTATTGGTGATTATTATCCTCATTTTACAGATACAGAAAC
TGAGGCTTCAGAGAGGCTGTGTAATCAAGAGTTTGTATGCCTTTCATCTGAGGAGGTTGA
GGACAATCCCAAGTTAGAAAAATAAATGTCTTTAGCATTATTTTCTTAATGTTTAGAA
TATTAATAAGTTACTCAGATAATCTATTGGAATTTCTTCATGGCAGGGGGAAGAGGCTA
GAGTTG
G

Sequence 4

TACTCAGTTTCCTTATCTATAACATGGGGATAATATTANGTATGCTACATCCGTTGTTA
T
GAGGATCAATATCTGTAAAGCTCTTAGAACATGCATTTTTCTTNTACTAAATGGGNAAGG
TCTGGCNGGCGCGGTGGCTCACACCTGGTAATCCCAGCACTGTGGAAGGCTGAGGNGGGG
GCAGTTGGGGAGCGAGGGGTTGTACTACTNCAATGTAACCTGCTTTCTCAGAAATTNAGG
CNAAGTCTTACTGACCATGTAAAGGAAATCCAACAATTATAAACAGTCTCNTGCCTTT
AAGGAGCTTATAGTCTAGTTANGAAACCAGACTTAACATATGAAAAGTTTAAACATTGG

Sequence 5

CTCTTTCATTGAAAGGAAATTANGGTTGAACCTCCAGGAGCCCGTCAGAGTCTGAGGAGA
GGCTGGCTTNATGTCTAGATACGACGACAGCAAGGCTGCTTAGAGCTAACAGCGCATTGC
CTTTCACTACCGGACTCTCCTTTGCAGCTGCCTTGGTGATCTCATCAGTCAGCATGTC
TC
TAACCCAGAGCCAGGCTGTGCTTTTTTTGTACCT

Sequence 6

CGCGGTGGCGGCCGCCCGGGCAGGTACCTATGACCATCTTACATTATTTTTATGGGTGGG
GGGCATTGGCTGTGGAATGTGGGCAGTAACCTGCACAGTCAGTAACCGTNNGAGTAACGT
GTTGTTGGCATCCCCATTCTGGCACTCCTCCTCTAGGTCTCCACCTCACACGCTGGTTTG
TGGGCGGAGGGGCAGGTTGGTGCCGTGGGGTGTCCGGGCACTGGCTGTGCATGCCTTCTT
CCTCTTCTGTCTCTTGGCCACCTTTTCCAAAAGTCACCAGTGACCAATTCTCCAGT

Table 1

GT

TTCTTTGGGACTCAATGCCTTGGGCTTGGCATTGGGTAAAGCCGACTGGCAAGTTTCATT
CTGACCAAGCTCTATAGTAGTCCGGNGTGGACCTCTTGCCCTCCCTGCTCTGCGGAAAGC
TTNCTCAGCCTTTGCTTCTTCACTTATTTACTATTTGCGGGGTCTGGGGGTACCCTC
GG
NCGCTCTAGAACTAAGTGGGATCCCCCCCCGGGCTGCAAGGAATTCGAATATCAAGCCTTA
TCGAATCCGTCNAACCTTCGAAGGGGG

Sequence 7

GGTGGCGGCCGAGGTACGGATACAATTCCGCTGAGTTAGATTCCAAATTCTAACCTCTCC
ATCACACGCCCCAGAAAGGACAGTAGCCAGCTTCTCTGGATGCTTTGCCAAGCAATTGAC
TCCATCACGGTGACCATCCAGCGAAGCAAGGAATGGTTTGCAAATACTCGTTCCAGTTT
GGTAGCATTTAAAGCTCTTATATATTCTCGTGGGACCTCAAAGGATGTAAAGCAGGATC
ATAGTTTCTTGGAATCTCTGTAAGTCCAACCTTGGTTTCGCGGACATAATTGTCCGGA
TT
CCGGCTCAGCATCTTACCTTCATCTCGGTTGCTCTTC

Sequence 8

AGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAAC
CAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCCTTTTGAGGT
CCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATTTGCAAAACC
ATTCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCATCCAGA
GAAGCTGGCTACTGTCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTTGGAATCTAAC
TCAGCGGAATTGTATCCGTACCTCGGCCGTTCTANACTAGGGGATCCCCCGGCC

Sequence 9

GGTGGCGGCCGAGGTACCACATGCACTGATAGCTCTCTTTGTATGAACAGGAGCTGTGGC
AGGCCCTATGCCAGGGAGAAAGTAAGATTGAAAAGAGCTTACCAAGGAGGTGGCATTG
CACTGTGCTTAAGGGGCAAGAAAACGCTTCCAATCAGGAGCCACAAATGCTTGGCTGA
AGTGCTACTGCTCTTTCATCCTGGAGCTGGAACAGACGTCACCACTCAATCATGATGGCT
GCTGGGTGCACTGGCTAACATCTATAATCCCAGCACTTTGTGAGGCTGAGGGTGGGAAGA
TTGCTTGGGGCCAGGAGTTTGAGACCAGTTTGGGCAAATTGCAAGACCCTGTCTCTGCA
AAAAAATATAAAATGTAGCTGAGTGTGGTGGCACCTGTAGACCCAGCCCCAGCTACTCGA
GAGGCTGAGATGGGAGGATCGCTTGGGCCTAGGAGTTCGAGGCTGCAGTGAGCTATGATT
GCACCACTGCACTCCAGCCTNNGGTGACAGAACANGACCTGTCTNTAAAAANCATTAAATT
AAATCAAAAAAAAAAAAAAAAAAAG

Sequence 10

GGTGGCGGCCGAACATCCTGTTTTAACTAGCACAGACAAAACCTATGTGTTACTATCAAA
ATAAAATTTAGAAAAACAATTTTCTTATAAAATTTTCTGTTTGATTTGGACTACATAAA
CTGGCTTTAAATTTGAGAAATATGCCCTAAAACCATAAGGAAAAAGCCAACAGAAAGAAC
AAAAAGATCACAGCAATTAGGCCCGTTCTATTCAATTTTGCCATGAGCTAAAAATCACAT
TCTTCACAAAGTAAATTACCGCCCTGTTTTTATTCTTAAGCACTAGGGTTAGGATTGT
G
ATCTGAGCTTTACTAAATCGGAAAAGAAAATCTCAATTATAGAACATTTAGTTTATTTAT
ACCTTAATGCCCGGAGAGGTAATATTTTACTTTAAATGCATAACCCATGTGGACATGCT
AGGTCTTCCAAA

Sequence 11

GGTGGGGCCGGGCCCGGACCCGGNCCAAGACCTACCCGCCGGNGNANTTGGCCTNNGGCC
CTGGGGTTTCTCCNAGGGGAAGCCTTGTAAGATCCACCTNNGGAAANCCTTGTTNNGGTN
CCGCTTGCCCCGTNGNATGGNTGGNGTAGGGGAAGGGCAAAGTACGCCTTCAAGAATAGG
NAAAAAGGGANGGGGGGGGGNACCACTCAAGGCCTGGCAAAGGCCAAGTGGGACCAAG
TGCCCCAAGGGGGCTTCTTGAATGGTGGNTCTCTCACAAGCTTTGTAANAAAGTGGTG
GAAGAACCAAGCCTTGNCCTTTTGTGGTTCGNGNGACCTTGAATAAAGGGCCAAAAGG

Table 1

AAGTTTTGGTTTCCCTTGGCCCCNTTTTCCCTTNTTGNTTGGAACCTTTTGGGAAA
A
GAAAACCCCCCTTGGGACCTTTTTTGGTTTTTCCCTTGGCNAAAAAAGGGGGCCACCCC
TTGGCCAAATTGGATGGTTCCTTGNATTGGTTTTTCCGGTCGCTTANGGGGCAATT
NA
NAANTTGGTTTGTAAGGGGAAAAG

Sequence 12

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTGTATTATTTAGTAG
AGATGGGGTTTACCGTGTGGCCGGGCTGGTCTTGAACCTTGATTCAAGTGATCCGT
CCACCTCAGCCTCCCAATGTGCTGGGATTACAGGTGTGAGCCACCATGCCTGGCCTTTT
CTTTTTTTTTTAAACGAAAAATGTTTTAATTGACAAATAAAATGATGTATATTTA
TGGTGTTTTTCTCTTTGCATCATCAGTCTCTTCTCATCACTGAAACCTACAAATATT
TTAAAATCTTCCATTAAAAAATTTGCTGATCATTCAACCTCTTCAAATTATTAAGAG
ATACTTACTTTGTATGAAAAATTTGTCGAGATGTATAATCCATTTTTTCTGGGAAG

Sequence 13

TTACTTAGGGCGAATTGCGNCCGAGGTACCAGGTGTCATTCTGCAGCAGGATTTAACAC
GATGCAGATCTGGCCCCAGTGTGAGCATCTGTGTTAATGGTATCAGACTTAAAGAAGGAA
AGACCTGATTTGACTGCTGTTGGTTGGTAGTGTTCCTGATCCGGAGCCAGTTTTGTGG
GAGGGAGTCCCAAAGCAGGTTTGAGCTGTGGTAATGACCGAGTTGATCCTAGAAGACAAA
ACAGTAGAATCGTACCTGCCCCG

Sequence 14

TGGCGGCCGAGGTACGGTATTCTCTTCAAACAAGAGCAAGCCCATGATGATGCCATTTGG
TCAGTTGCTTGGGGACAAACAAGAAGGAAAACTCTGAGACAGTGGTCACAGGCTCCCTA
GTGACCTGGTGAAGGTCTGGAAATGGCGTGATGAGAGGCTGGACCTGCAGTGGAGTCTG
GAGGGACATCAGCTGGGAGTGGTGTCTGTGGGACATCAGCCACACCCTGCCCATTTGCTGC
ATCCAGCTCTNTTGATGCTCATATTCGTCTTTGGGACTTGGAAAATGGCAAACAGATAAA
GTCCATAGATGCAGGACCTGTGGATGCCTGGACTTTGGCCTTTCTCCTGATTCCAGTN
TCTGGCCACAGGAACTCATGTGCGGAANGTGAACATTTTGGTGTGGAAGNGGGAAAAA
GGAA

Sequence 15

GCCCCTGCCCGGCTGGTTATGTAACAAACAAAGTCTGTGTCTGTGTGGAGTGTTCAGGA
CGAGTGGAATGACTGTTTCCAAGTTCATGGCAATTCAGAAGGCCCTTCAGCCAGACTGG
TTCCAGTGCCCTCTCCGATGGAGAAGTATCTTGTAAAGGAAGCAACTTCATAAAAAGGGTC
AGAAAGTCTGTTGACCGATCACTTCTTTCTTGGATAACTGTCTGCGGCTGCAGGAAGAG
TCAGAGGTTCTTCAGAAGAGTGTGATCATTGGAGTGATTGAAGGTGGAGATGTGATGGAA
GAGAGGCTGAGGTCAGCACGAGACAGCCAAGCGGCCTGTGGGTGGCTTCTTCTGGATG
GTTTTCAAGGAAATCCAACA

Sequence 16

CGGTGGCGGCCGCCCGGGCAGGACGCGGGAAGAGGTAATTTAATGCCATTTTCATGGGA
CACTTGGGAGCTAGATTAGAAGAAGCCAAGACTAGAATCGGGGAGATGAGTTGCAGAGGG
NNGTGGTGAAGGTCTGAAGGAAGGTAGGAAAAGGTCGGACACATTCCAGACATATTTAGG
GGTGGAGGTGGTTGGATATGGGGAGTT

Sequence 17

TTCGCGGTGGCCCGGCCGCCCGGGCAGGTGACTTTAGTCCTCACTCTGTGGGCAGGGGCA
TTACAGCATAGGGGTCCCTTTTGTGAGGGATTTATGATGGCATCACACGCAGGATTCAGA
GAGCATNAATTGAAAAATACATATGATTGGCTGGGCGTGGAGGCTTATGCCTGTAATCCC
AGCACTTTGGGAGGCTGAGGTGGGTGGATCACCTGAGGTCGGGAGTTCGAGACCAGTCTG
ACCAACATGGAGAAACCTTTCTCTACTAAAAATACAAAATTAGCCGGGCGTGGTGGCAC
ATGCCTGTAATCCCAGCTACTAGGGAGGCTGAGGCAGGAGAATTGCTTGAACC

Table 1

Sequence 18

TNCCGCGGTGGCGGCCGAGGTACGATTCTACTGTTTTGTCTTCTAGGATCAACTCGGTCA
TTACCACAGCTCAAACCTGCTTTGGGACTCCCTCCCACAAAAGTGGCTCCGGATCAGGGA
ACACTACCAAACCAACAGCAGTCAAATCAGGTCTTTCCTTCTTAAGTCTGATACCATT
A
ACACAGATGCTCACACTGGGGCCAGATCTGCATCTGTAAATCCTGCTGCAGGAATGACA
CCTGGTACCTGCCCCG

Sequence 19

CCGCGGTGGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTATTTTTTTTTT
T
TTTTTTTTTTTTTNCCCCGGGAGAGGAATTGGGAAGAGCAAATTGCTGCTGAAAATT
TC
TACATTGATCCAGACAAACAAGTTAGAGCAGGCTGAAAAAGAACCCTTGGTGTTTTCTG
TGTTCAACCAGATCAACTGGAAAAGTATAGATACCTTAATTAGCACTGTGCTCTGNNGGA
TTCTGGTCAGCCTGGCCAGTGGTTTTTTTCCCCTGAACACNCCTGAAAGGGGAGCTCAT
AATGACTGCTGTGCAGGTGGGCGGGGAGGGGGCTTCTATTGATTTAGNGGCTGATCAA
TGCCAGTTACCAATTNTNGGTNGCCCCATTTATACATGGNGGAAAAAAGTACCT

Sequence 20

GAGGTACCCAATTTTTTTAAGTTCTAAGGTAGCTTTCTCAAAGAAAACCATTTAGGGT
G
TCCATTAAAAGAGCATCTGCGAATTGTTTTGTCAGGGACTCCTAATCAGTCAGGAGAAGT
AGAATGTAAGCAAGTCACAAACCTCCCGTAAGAATTTGGTTCAACCAGGACACAGCTCCT
CTCTTATGAAGGGATGAGAAGCAGACCCCAAAACCCAGTGCCACAGTCTCCCTGAAACAG
CAGCAGGCTTGGGGAATGCTTCCAAAAGGCTATGCCATTCAAGGTCTCAGGTTTTTTGGT
TAAAATACAACCTTAGGCCAACTGCAAGTGGCTCATGCCTGTAATTAATTCCAAC

Sequence 21

GTGGCGGCCGAGGTACGATTCTACTGTTTTGTCTTCTAGGATCAACTCGGTCAATTACCAC
AGCTCAAACCTGCTTTGGGACTCCCTCCCACAAAAGTGGCTCCGGATCAGGGAACACTAC
CAAACCAACAGCAGTCAAATCAGGTCTTTCCTTCTTTAAGTCTGATACCATTAAACACAGA
TGCTCACACTGGGGCCAGATCTGCATCTGTAAATCCTGCTGCAGGAATGACGCCTGGTA
CCTGCCCCG

Sequence 22

CGCGGTGGCGGCCGAGGTACAGAGTAGAGAGAGTTCTGCAGGGATGAAGTGGGAGACGTT
GATAGGACCAGACCAGACCAGGCCTTGAGGCCATGGAAGGACTTTGGATTTTACACCAA
GTGCAACAGGTAAGTCTGGAGGGAATTCAGCAAGAGAGTGACAGGAGCTGATTGACAAT
TTGAACGCCCACTCTGGCTGCCATGTGGCAAATAGATTGTAGGAAGAAAAGAAGAAAAGG
AAGAGAGCAGTTTGAAGCTACTACTGTTGTCCAGAAATATGTAATGGTGGCTTGG
C

Sequence 23

CGCGGTGGCGGCCGAGGTACANAGTAGAGAGAGTTCTGCAGGGATGAACGTGGGAGACGT
TGATATGGACCAGACCAGACCAGGCCTTGAGGCCATGGAAGGACTTTGGATTTTACACC
AAGTGCAACAGGTAAGTCTGGAGGGAATTCAGCAAGAGAGTGACAGGAGCTGATTGACA
ATTTGAACGCCCACTCTGGCTGCCATGTGGCAAATAGATTGTAGGAAGAAAAGAAGAAA
GGAAGAGAGCAGTTTGAAGCTACTACTGTTGTCCAGAAATATGTAATGGTGGCTTGGC
CCAGGTTGGGGT

Sequence 24

CCGCGGTGGCGGCCGAGGTACAAAAAAGCACANGCCTGGCTCTGGGTTAGAGACATGCT
GACTGATGAGATACCAAGGCAGCTGCAAGGAGAGTCCGGTAGTGAAAGGCAATGCGCT
GTTAGCTCTAAGCAGCCTTGCTGTCGTCGTATCTAGACATGAAGCCAGCCTCTCCTCAGA
CTCTGACGGGCTCCTGGAGGTTCAACCTAATTTCTTTCAATGAAAGAGTGGGTTTCCAT

Table 1

GGTACCTGCCCCG

Sequence 25

CCGCGGNGGCGGCCGCCGGGCAGGTACGCGGGAGGCACATTCTTTTCTACGTGAAGAGT
TTTGTAAGTGAAGTTTGTTCAGTTCCGGCTCCAGCCATCCTGGGGTNGCTTGCCA
AT
AGATGAATCCCACTCGTTTGACCCATGACGCTCCTTCTTTTCATTTCTCCCTCTTTCCC
C
ACAGCAGTGCATGTCCACCATACCACCTGAGAGTCTGTGGAATCTAATTTTCTGTTATAC
TTCTTTCCTTACAC

Sequence 26

GCGGTGGCGGCCGAGGTACGGATACAATTCCGCTGAGTTAGATTCCAAATTCTAACCTCT
CCATCACACGCCCCAGAAAGGACAAGTAGCCAGCTTCTCTGGATGCTTTGCCAAGCAATT
GACTCCATCACGGTGACCATCCAGCGAAGCAAGGAATGGTTTTGCAAATACTCGTTCCAG
TTTGGTAGCATTTAAAGCTCTTATATATTCTCGTGGGACCTCAAAGGATGTAAAGCAGG
ATCATAGTTTCTTGGAAGTCTCTGTAAGTCCAACCTGGTTTCGCGGACATAATTGTCC
GG
ATTCCGGCTCAGCATCTTCACCTTCATCTCGGTTGCTCTTC

Sequence 27

ACGCGGCGGCGGCCGAGGTACGGATACAATTCCGCTGAGTTAGATTCCAAATTCTAACCT
CTCCATCACACGCCCCANAAAGGACAGTAGCCAGCTTNTCTGGATGCTTTGCCAAGCAAT
TGACTCCATCACGGTGACCATCCAGCGAAGCAAGGAATGGTTTTGCAAATACTCGTTCCA
GTTTGGTAGCATTTAAAGCTCTTATATATTCTCGTGGGACCTCAAAGGATGTAAAGCAG
GATCATAGTTTCTTGGAAGTCTCTGTAAGNCACTTGGTTATCGCCGGACATAATTGG
ACCCGGTATTTCCGGCTCAGNCATCTTCACCTTTCATCTAAGGNTTGCATNTCCGGGGCC
CGNTCTAAGAACTAGTGGGATCCCCCGGGGCTGCAGGGAATCCGATAATCAAAGGCT
TAATCTGAATACCCGGTCGGACCCTTCGGAGGNGGGGGGGCCCGNTACCCCAAGCTTT
TTTGGTTTCCCTT

Sequence 28

CGGCCGAGGTACTCAGTTTCCTTATCTATAACATGGGGATAATATTAGTAGCTACATCGT
TGTTATGAGGATCAATATCTGTAAAGCTCTTAGAACATGCATTTTCTTCTACTAAATTT
TAAGGNCTGGCAGGCGCGGTGGCTCACACCTGGNATCCAGCACTGTGGAAGGCTGAGGT
GGGGGACAGTGGGGAGCGAGGGGNTGTTACTACTCCAATGTAAGTCTTCTCAGAAATTA
AGGCAAAAAGTCTTACTGACCATGTNAAGGAAATCCAACAATTATAACAGTCTCTGCCT
TTAAGGAGCTTATAGTCTAGTTAAGAAACCAGACTTAAACATATGAAAAGTTAAACATTG
GCCAGGCACAGTGGCTCATGCCTATAATCCAGCACTTTGGGAGGCCAAGGCAGGAGAT
CACCTGAGGTCANGAGTTCGAGACCAGCCTGACCAGCNTGGAGAAACCCCATCTN

Sequence 29

GCGGTGGCGGCCGAGGTACTCAGTTTCCTTATCTATAACATGGGGATAATATTAGTAGCT
ACATCGTTGTTATGAGGATCAATATCTGTAAAGCTCTTAGAACATGCATTTTCTTCTA
C
TAAATTTTAAGGTCTGGCAGGCGCGGTGGCTCACACCTGGTAATCCAGCACTGTGGAAG
GCTGAGGTGGGGCAGTGGGGAGCGAGGGGTTGTTACTACTCCAATGTAAGTCTTCTC
AGAAATTAAGGCAAAAAGTCTTACTGACCATGTAAAGGGAATNCAACAATTATAACAG
TCTCT

Sequence 30

GGCGGCCGAGGTACTCAGTTTCCTTATCTATAACATGGGGATAATATTACGTAGCTACAT
CGTTGTTATGAGGATCAATATCTGTAAAGCTCTTAGAACATGCATTTTCTTCTACTAA
A
TTTAAAGGTCTGGCAGGCGCGGTGGCTCACACCTGGTATCCAGCACTGTGGAAGGCTGA
GGTGGGGGACAGTGGGGAGCGAGGGGTTGTTACTACTCCAATGTAAGTCTTCTCAGAAA

Table 1

TTAAGGCAAAAAGTCTTACTGACCATGTAAAGGAAATCCAACAATTATAAACAGTCTCTG
CCTTTAAGGAGCTTATAGTCTAGTTAAGAAACCAGACTTAAACATATGAAAAGTTAAACA
TTGGCCAGGCACAGTGGCTCATGCCTATAATCCCAGCACTTTGGGAGGCCAAGGCAGGAG
GATCACCTGAGGTCAGGAGTTCGAGACCAGCCTGACCAGCATGGAGAAACCCCATCTTTA
CTAAAAATACAAAAGTCTTGGGCGATGGTGGCGCATGCCTGTGATCCCAGCTACTTGAGA
GGCTGAGGCGGGAGAATCACTTGAACCCGGGAGGTCGAGCGGCCGCCCGG

Sequence 31

CCCGCGGTGGCGGCCGAGGTACTCAGTTTCCTTATCTATAACATGGGGATAATATTAGTA
GCTACATCGTTGTTATGAGGATCAATATCTGTAAAGCTCTTAGAACATGCATTTTCTT
C
TACTAAATTTTAAGGTCTGGCAGGCGCGGTGGCTCACACCTGGTAATCCAGCACTGTGG
AAGGCTGAGGTGGGGGAGTGGGGAGCGAGGGGTTGTTACTACTCCAATGTAAGTCTTT
CTCAGAAATTAAGGCAAAAAGTCTTACTGACCATGTAAAGGAAATCCAACAATTATAAC
AGTCTCTGCCTTTAAGGAGCTTTATAGTCTAGTTAAGAAA

Sequence 32

GCGGCCGAGGTACGTATGCACTTGCTTGCCATCTAAGCAGGGACAATGGCAGTTCATATC
ATGATGTTACTTTGATTCTCTGACCAAACCTGGCCTGTGAGCACCTGGGCCTTCTTC
CT
CTGTCAAAGGCCTTAAGACAGGTTTACCCTGTAGCCAGGTCTGGAAGACAGAGCTGGGTT
AAAGCTGGGTGGGAGAAGTGAAGGAGTCAAGTTTACATTCTACGCGGAAAAGGATGTA
ACACGGGGCCACATCCTATGCCCAATCCCAAGGCAGGGAGGCAGGGAAGTGGCTGCCAAA
CCTGTTGTAGGAGAGTAATAAATGACTTGAGAGTAAGCCTAAGCAAACCTCAAGTGGGAAG
GGGAGTGGGCTGTAAATAGTTTAAGAGACTCTCTCAGGAAGTCAGCGTAATTGATGTGT
AGAAAGGTAACAGTCAACAGTTCTCCTAACAAGACAGCTTCAAAGCAGCAGCTATAGTGG
AGCATTCTGAGGCCTGCTGCAGATCAAAGCATGAATGTGCAGACTGGTCTCTTGCCCA
GCGTTTCTTTC

Sequence 33

CCGCGGTGGCGGCCGAGGTACGTATGCACTTGCTTGCCATCTAAGCAGGGACAATGGCAG
TTCATATCATGATGTTACTTTGATTCTCTGACCAAACCTGGCCTGTGAGCACCTGGGC
CT
TTCTTCTCTGTCAAAGGCCTTAAGACAGGTTTACCCTGTAGCCAGGCTCTGGAAGACAG
AGCTGGGTAAAGCTGGGTGGGAGAAGTGAAGGAGTCAAGTTTACATTCTACGCGGAA
AAGGATGTAAACACGGGGCCACATCCTATGCCCAATCCCAAGGCAGGGAGGCAGGGAAGT
GCTGCCAAACCTGTTGTAGGAGAGTAATAAATGACTTGAGAGTAAGCCTAAGCAAACCTCA
AGTGGGAAGGGGAGTGGGCTT

Sequence 34

GCGGCCGAGGTACAGTTAAAGTCTTCTAGCCTGTATCCCCACTCCTTTTGGCACTTGC
AAATTCGGTAGCCAGTTACCCAGAGGGAGGCATAGGAGGGAAAACGAAGACTGAAAAGG
GCTAATATGAGTTTGTCTCTTACAATTTATCTGCATCTTATCCTTCCCCACCCCCCA
T
CATTAATCATTAAACATTCTATCCAAATAGGATGCCCTTCTGTGGAAGTGCATATTTG
G
AAACCATACTGCCTGTTTAACCTATGCACTCCACTGGGAAGTACAGTATCTGTTTCCC
A
CAATACTTGCAGTCATATCAGTTACAACCGCTGGGTGTGTATTGGTTCAAAGGACCTAC
CTACAAGGTTATATCAATCCATTGTCCAATTTGAGAGATTTTTCTGAATCCAGTTAAA
A
TAATTTTTGGCTACACCTGGGGACACTTCCCAGGACAACAATGACTTGTAGTCTAGTGCC
CAAGAAAGCCAAAAGGCCCGGCAAC

Sequence 35

GGTGGCGGCCGAGGTACGGATACAATTCGCTGAGTTAGATTCCAAATTCTAACCTCTCC

Table 1

ATCACACGCCCCAGAAAGGACAGTAGCCAGCTTCTCTGGATGCTTTGCCAAGCAATTGAC
 TCCATCACGGTGACCATCCAGCGAAGCAAGGAATGGTTTTGCAAATACTCGTTCCAGTTT
 GGTAGCATTAAAGCTCTTATATATTCTCGTGGGACCTCAAAGGATGTAAAGCAGGATC
 ATAGTTTCTTGAACTCTCTGTAAGTCCAACCTTGGTTTCGCGGACATAATTGTCCGGA
 TT

CCGGCTCAGCATCTTCACCTTCATCTCGGTTGCTCTTC

Sequence 36

CATNTGTGTTTTATTGTGAAGGGTCTCAACTGTGTGGCTGATTCAAGGCTGTCCCCACTG
 CAATGTAGGGAGAGGAGAGAGAAAGGGATGAAAGTGAAGGCAGGGGGGGGATGTTTGTTNC
 ACCGGGGTGAACCTTCTGCCTGAGCAAGNTGATGTTGGCTTCCGANNGTATTTGGGACACT
 TTCTTTCAATACATNTNTTATTTAAGCACTTTATTCTGTGNCTGCTGCCCTG

G

Sequence 37

CCGCGGTGGCGGCCCGCCCGGGCAGG*ACGCGGGGGCAACATGGCGGCCCTAGCAAGCTAT
 AGCTGCGAGATTTGAATTACTCCACTCGTAGCTATTGCATTCTGACGATGGCCTCTGTG
 GCTTCGTGCGATTGCGCTCCGAGCTCAGACGAGCTCCCTGGAGACCCCTCTTCACAAGAA
 GAAGATGAGGACTATGATTTTGAAGATCGGGTCAGCGACTCGGGTTCATATCTCAGCG
 AGTAGCGATTATGATGATCTTGAGCCTGAATGGCTGGACAGTGTGCAGAAAAATGGAGAG
 CTGTTTTATTTGGAATTGAGTGAGGATGAAGAAGAAAGCCTCCTTCCTGAGACACCAACT
 GTGAACCATGTCAGGTTCAAGTGAATGAGATTATCATTG

Sequence 38

CCGCCGAGGTACTTAAGTTTTTCTTCAGTTACAGCTACCATGTGAAAAATAATTCTCTGC

T

TATCAAGTTTACAACCTTTAGAATTTCTGTTTTAAAGTTTTCTCATTTACTTATCACACA
 GTCATCTTCTTTTTGCCAAACGCTATAGTAGCACATTAAAAGGAGACTGATGTGAAATCA
 ACTCTGTGCAAAAAGTATTGGGTGCTTTGGTAGAAGTCTATACAGAAGACACTGGAGACA
 CAAAAATGAATTTGTCCAGGTGAGTTGATGTCAGAAAAGGCTTAATAATGGAGATGAGG
 CCGGGCATGGTGGTTCACACCTGTAATCCCACCTGTTTGGGAGGCTGAGGCAGGTAGATC
 ACTTGAGACCAGGAGTTTGAGACCAGCCAGCCAACATGGAGAATCCTGTCTCCACTTTT
 NAAAAANTNAAAAANATNNGTTCTGCCCCGGCGGGCGCTTAGAACTAGTGGGATCCCCC
 GGGCTGCANGAATTTGATATCA

Sequence 39

TCCCCGCGGTGGCGGCCCGCCCGGGCTGGTACGCGGGAAGCAAAACGACAAGCACGCCCT
 GAGCAGAGCCCCGGGAATTCAACCTTTAAGTGGATAACTTGGCTTCTGGTTTGCCAAGGA
 ACCAGGGCATCAAACAGATGAAACAGCCTATTGTCCATTTCAACAGGATTTTCAGGAGT
 GGGGATGATCTTTCAAATTATCCACAACCTAATTATTTAATATTTGATAGTCAATTACC
 TAAGACACGGCATCGTCACTGACCAATCAGAAGAGATGCCAGTAGTTGGGCGCAGTGGCA
 GCACTTTGGGAGGCTGAGTGGACAGATCACCTGGGGTCAGGAGTTCGAGACCAGCCTGGC
 CTACATGGTGAAACCCCATCTCTACTAAAAATACAAAAATGAGCCAGGCATGGTGGGCAC
 CTGTAATCCCAGCTACTTGACAGAGTGAGCCTCTGTCTCAAAAAAAAAAAAAAAAAA

Sequence 40

GCCTCCCCGCGGTGGCGGCCGAGGTACAGTTTAGAAAAGTGTGGGGCTGAGTCTCGGGG
 CCGTGGGGCGCAGCGTGGCTGATCACCATCATAACGGGCCTATGGGGATACATTCTCTTA
 GACATTTTGAAGTAATTAATGCTCTCGTTAGTGATTAAGTCTGTGAAGTAGTCCTTGC

A

TAATCAAATCCATGCTTTTCTTTGATGCCATTGCGACAAACAGTGTAATTATAGAAGCG

A

GAATTCCTTGATTAATCCAAGCCATTCTCGCCACCCAGGGGGGATGTAGCTGCCATTATAT
 TCATTGAGGTATTTTCAAAAAAGGCTGTTCTGTAGCCAGTGTTGTTAAGATATACAGCA
 AAAGTCCGAGGCTCATGCATGGCCTGCCACGAGGGGGAAGAGCAGTTCTCGTTGTTGGTG

Table 1

TAGACATTGTGATTGTGCACATACTTNCCGGTGAGCATGGAGGACCGTGACGGGCAGCAC
ATGGGGTGTAGTCACAAAGGCATTGATGAAGGTGGCCCCCATGTT

Sequence 41

CCCCGCGGTGGCGGCCGCGGGCAGGTACACGTGCACATTGTGCAGGTTAGTTACATAT
GTATACATGAGCCATGCTGGTGCCTGCACCATGGCACATGCATATCTATGTAACAACT
TGCATGTTCTGCACATGTATCACAGAACTTAAAGTGTAAATAAAAAAGAAAGAAAAACAG
CATGCAATTCAGCCACACAAAAAAGAAGTCAAAGACAGCGAGAATTCCTAAAAACAGC
AATAAAAAGTATAAAGTCACTCTAAAGGAATCCCCGTTAGATTAAACAACACATTTCTTAA
GAGAAATCTAACAGGCCAGGAGAGAATGGGATGACATATTCAAAGTGTTAAAGGGGGGA
AAAACTCCACTCAAGACTACACCCAGAAAAGCTATCTTCAGAAATGGAGATAAAAAACA
TCTTTCCAGACAAAGAAAACTAAGAGAATTTACTACCACTCACCAGCCTTACCAAAAA

A

Sequence 42

NTTGGAGCTCCCCGCGGTGGCGGCCGGAGAGCAACCGAGATGAAGGTGAAGATGCTGAGC
CGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAAAC
TATGATCCTGCTTTACATCCTTTTGAGGTCCCACGAGAATATATAAGAGCTTTAAATGC

T

ACCAAACTGGAACGAGTATTTGCAAAACCATTCTTGCTTCGCTGGATGGTCACCGTGAT
GGAGTCAATTGCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCCTTTCTGGGGCGTGT
GATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAATTGTATCCGTACCT

Sequence 43

ATTGGAGCTCCCCGCGGTGGCGGCCGGAGAGCAACCGAGATGAAGGTGAAGATGCTGAGC
CGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAAAC
TATGATCCTGCTTTACATCCTTTTGAGGTCCCACGAGAATATATAAGAGCTTTAAATGC

T

ACCAAACTGGAACGAGTATTTGCAAAACCATTCTTGCTTCGCTGGATGGTCACCGTGAT
GGAGTCAATTGCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCCTTTCTGGGGCGTGT
GATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAATTGTATCCGTACCT

Sequence 44

GGCGGCCGCGCGGCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTCTACTCTGGAAG

C

TGAGNGGAAGGATTGCTTGAGCCCAGGAGTTTGAGGCTGCAGTGAGCTATGATCACAAAC
ACTGCACTCAAGCCTGGGCAACAGAGCAAGACCCTGACTGTAAAAAATTTTTTACATT
AATTTTTAAAGTGAGGTTTTTACCTGATGATTGNGTAGGTTCTCCTAGCTCCAAAGT

A

TCCGGCTCCTACGACTCTAAATATAACCTTCAAGGAAAGNGGAGCTGGTTTACTCTTTTC
TGATAATATCAAGCCATTCTGGCTGGGCGTGGNGGCTCATGCCTATAATCCCAGCACTT
TGGGAGGCCCCGCGTACCT

Sequence 45

GGGNGGCTCCCACCGCGGTAGGCNNGGCCGCCCGGGCCAGGTACGCGGGNAATTCAAGGAT
GGGATTAAAGGATTTAAACCGTTTAGGACCCTAAAAGCATAAAAACCCCTTAGAAAGGAA
AATCTTAGGGCAATACCCATTGGAGGGACCTTAGGGCCTTGGGACCAAAGGACTTTCATG
GACTTAAAAACCACCCCAAAAGGCAATTGGGCAANCCAAAANGCCCCAAAATTAGGNCCA
AATNGGGGATTCTTAACCTTAAACTTTAAAGGAGGCTTTNTTGGCCCCAGGCCAAAANG
GAAACTTTCCCCTTCNAGANGNGGGGACCCNNGGCCANCCCTTTCNNGGAATNGGGGG
GGGAAAAATTT

Sequence 46

GGAGCTCCCCGCGGTGGCGGCCGAGGTACTCGGGAGATCGTGCCACTGCCCTCCAGCCTG
AGAGAAAGAACTCTGTCTCTAAAAAAGAAAGAAAGATGTCAGTGCTATTATAG
TAATACAAAAATTTAATGTAATTTTGTCAAATCTCAATGGTATATTTTGCAGATTTT

Table 1

TCAAATTATATATATGATTTATAAATTATTGTTATAGATTCTGGAAAGTTAATCCAT
CTCACCATTACATAATACCAATCTCTCTCGGCCGGGCGCAGTGGCTCACGCCTGTAGTCT
CAGCACTTTGGGAGTCCGAGGCGGGTGAATCATGAGGTCCAGAGATCGAGACCATCCTGG
CCAACAAGGTGAAACCCCATCTCTACTAAAAAT

Sequence 47

CTAACCTCACATTTAATTGCGTTTGCCTCACTGCCCCGCTTTTCCAGTCGGGGAAACCT
TGTTCTGTCAGCAGTCAATTTAATNGAATCGGGCCCAACNGCCGCGGGGGAGGAGGG
CCGGGTTTTTGGCGGTATTGGGGGCGCCTTCTTTCCCGCTTCTTTCCGCTCACTT
GAA
CTTCGCCTNCCGCCTTCGGGGTCC

Sequence 48

CGCGGTGGCGGCCGCCGCCNAGGTACAAGNGACAATGCTGGATGCCAAGCAGNTCCCC
CCTACCGTCTCACTGCCCCCTCAAGACTTCAAGGCCACTCTCCCCATAACATCATGACTA
CAGATTTAGGTGGAAGAGCAGCCATGTTTGAAGGGCACATGTGATGAGTGGGGGGCAGCA
AGATGCCATTTCTGCATCTCCAGAAGGGATGAGTCTTTGTCCCGATGCAAGCCCCCTCT
TCGTTGGGCTCCAGCAGTGCTTNCCTNCTCCACCCTGCACTTCATTNGTTCTTTCC
CC

Sequence 49

CGGGCCGAGGTACAATAATGGAGCTCAGAAGCTGTCAAGGATATAAGCAGTGAACCCA
AGACCTAAGAATCTTGATGTTGAAATAAAGATGGAGGAAGCTATGACCTACACAGAGGA
CAGTTATGGGATGGATGGGAAGGTTAATCAGCCCCGTCTCACTGCAGACATCAACTGGCA
AGGCTAGAGGAGCTACACAGTGTGAATGAAAACATCTATGAGTACCTGCCCGGGCGGCC
GGCTCTAGAACTAGTGGATCCCCGG

Sequence 50

GGCGGCCGGANGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCCGGAATCCGGACAATT
ATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTAC
ATCCTTTTGGGTCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAG
TATTTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGG
CAAAGCATCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGTGATGGAGAGGTTAGAA
TTTGAATCTAACTCAGCGGAATTGTATCCCGTACC

T

Sequence 51

NGGCGGCCGAGGTACCTCAGCATATATTGGAAGTGTTTTAGAGTTGGTGAGTTCCCCGTG
CCTTCCAGAACTGAACGCTAGGAGGAGCAGNCAGNGAGGACAGACGTCTATGCAGAAACA
TGGNGAACCTCTGGAATGACACACTCTCCGGGCNCAGGGGGCCATTCTGTCATCTTTGA
GGTGGACTAATCATGGAGATTCTNGCAGGGCCGGCTGCTATCTCAGATTTCTAATCGGA
GAAGGAGAGAGATCAACTTCCATCGACTCCAGTCTGTGCGGGGCTGATGAGTGAGGTGGC
AGCAGGCATCCGCGTGTTTTGTTGAACTGGACTTTTTATTGTGCTGAAAGCTGTTT
GT

TGTGATGATCTCATACTTTGNAGTTGNTCTATCTGCANCACTGACTTTC

Sequence 52

TCGTTNGAAGCCCCCGCGGTGGCGGCCGAGGACTTTTTTTTTTTTTTTTTTTGG
CA

TTCTGAAAATTCATGAGGCTGTGTTTTAGGTGAGGCTATTTCTTCATTCAGTGAACNG
GG

CACCCAACAGGCTCTTAATATGAAGACTTGGGCCCTTCTGAGTTCTAGAAAAGCATTTT
TACTAGTTCTTCAGTAATTTCCCCTCCCCTTCATTCTGTCTCTTTTCTCGGACTC
C

AATTGGATCTTGGGCTCTAAGTATAGGCAAGATCATGTTTCTAAAAAGGTTCTTAGAGG
GAGGGAGTTCCTGGGAGTGTTATGTGGGGTGGTGCANAAGGTGCTAACAGGTGGNTTNT

Table 1

CTTTAGGATGAGCAGGTGG

Sequence 53

GTGAAGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGACTTACAG
AGAGTTCCNNGAACTATGATCCTGCTTTACATCCTTTTGAGGTCCCACGAGAATATATA
AGAGCTTTAAATGCTACCAAACCTGGAACGAGTATTTGCAAAACCATTCCTTGCTTCGCTG
GATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTC
CTTTCTGGGGCCGTGTGATGGAGAGGTTAGAAATTTGGAATCTAACTCAAGCCGGAATT
GTAATCACGTACCTCGGCCCGCTCTAAGAACTAGTGGGATCCCCCGNGCTGCAGGGAAA
TTCCGATATCAAGGCTTTATCGATACCGGTCNACCCTNGAGGGGGGGGGCCCCGGGTACC
CCAANCTTTTTGG

Sequence 54

CCCCCGCGGGGCGGCCGAGGTACACTGGGAAAATGAAGAACTTAACTACATAAAAAATAG
AGGGACAGTCAAACTTCACAGGGGGGAAATCAAGTTAAATTCAGAGCTGGATTTAGATG
ATGCCATTCTAGAGAAGTTTGCTTTCTCCAATGCTCTATGCCTTTCTGTAAACTGGCA
A
TTTGGAAGCATCACTGGATAAATTTTATTGAATCTATTCAAGNCAATTCCTGAGGCTT
T
AAAAGCTGGGAAGAAAGTGAAACTATCTCATGAAGAAGTTATGCAGAAAATCGGTGAACT
CTTTGCTCTAAGGCACCGTATAAACTTTGAAGTTCAGGACCTTCCTGATTACTCCTGA
TT
TCTTACTGGGGACAGGAGAAAACCNNGGAAGGGACTTTACCGATAAAAACCGTGGTCAA
ATTCCTTTAGCCATTTGGCCCCGAAAGANGTTAAGGGTCCAATGAAATTGAAA

Sequence 55

TAGCAGGAGCCCCAGGAGTCTGAGCGGNGGGACCCTCATGTCCATGCCTGTTGTCCCTGG
ACNTGAAGACCTGAACTCCCCCGCGTACTCTCGGCCCGNTTCTTAGGAACNTAGGTGGG
ATTCCCCCGGGCCTGCTAGGGGAATTTCCGAATATTCAAAGGCTTAATTCGAATACCCCG
GTCCGAACNCTTCGNAGGGGGGGGGGGGCCCCCGNNTTACCCAAGC

Sequence 56

GCGGCCGAAGAGCACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATTATGT
CCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCC
TTTTGAGGTCCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATT
TGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAA
GCATCCAGAGAAGCTGGCTACTGTCCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTTG
GAATCTAACTCAGCGGAATTGTATCCGTACCT

Sequence 57

CAGGGAATGGNGGNGGCTNCACCTGGGGANNCTGAGGCCCGTGTGTTGTGGAAGATGTA
GATTCCTTCATGAAACAGNCTGGNAATGACGACTGCNGATACAGTATTAAAGAAGACTGG
ATGAACAGTACCT

Sequence 58

CGGCCGCGGGCAGGTACGCGGGCTATTGTGATTCCCAGTGACCCATAGAACAGGATTTTC
ACTAGTCCTATGACATGTGACTGGGCTTGGGAAGTTCNCGTGTGAGNTCCAAAAATCCTA
AGGTGGGATCTTCGCTTTGTGAAGCAAATTAATTACACAACCAAATATTGCCACATTCT
T
GAGGTCTATTGACACAATGGGAACCTCAACCCCTACTTAGCTTAGCATTTTTTTTTTTCA
A
GAGTGAAAAGTGGTCCACGTAGAGCACAATATAATTTAAGTAAAGGAAGATTAACATA
TTTTATCCATTCTTATGGTGGNNNNATTACATGTTTTAGATTGAGGTCCCCCTCTC
A
GGAAAACCTTTCAACTTCGTATTATCACTCCTGAGTAGTATGGGGGTAGAAAAATGAG
TGGGAAATCAGTTTGGTCCACTATTTTCCCGAGTCTTCTTGCACTTGCAAATACTTTC
A

Table 1

TCAAATATTTTACCAAAATTCCTCANGCNCCTGTTTACCAGGATGGTGGTATCACNATC
A

GGGCTCAAACCAAAGNTTACAGGAAATTCNTTGGNGGGTTTTTATCCTGGGACNATTC
TAAATTTTAAAAAACCTAAAAAAGGTTATTTATTTCTTCNCNAATTTATTCANNTGNTT
TTTAAA

Sequence 59

CACGCGGGAAAGATCAGTTGNTTACCTTGGCATTCAAAGACTTTTCTTTGACTCCCATG
GTTCTCAAAGCGTGATCCTGGTCCACCACCATCAGCATGGNNGGNGGGAACGTGTTAGCA
CTGCAAATTCTCATTCTCCCTAATTTCTGAATCANAAATTACGGAGGTGGAGCCAGC
AATCTGTTTTAACCAACTTCCACATAATTCTAATTAATTTATGCTTTGGAGAACNCGC
T
GATCTAGTTTGTCCCTCTCATTTTGCAGGCAAAGAATTGAATTCTAGAGAGGTTAATTG
A

CCTTGTCCAGTCATACAGCTAGGGTCTGTTTTCTATTATTTATTTATTTATTTTAA
TTTTATTCACTTTACCCCCCAGGTATTCATAGNTTCTTTCTAAATACTCCATATTTGGA
CTTGACTTTTTACAAGTTTGTAAATTACCAAATAAAGTCTAAAGATGGGGAAAGGTTGTGG
GAAAACTTTATAGAGAACATGAGATTTTGAAGTGAACCAAGTNAACATTAAGTAGAGAGNAA
AAAGAAAGGGGTGTTCTAAAGCAGTAGGGACCACAGTGAATAAAGGGAGAAGATAGGGAA
GNTTTAAAAAAA

Sequence 60

ACATCCTTTTGAGGTCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACG
AGTATTTGCAAACCATTCCTTGCTTCGCTGGATGGTCACCGNGATGGAGTCAATTGCTT
GGCAAAGCATCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGTGATGGAGAGGTTAG
AATTTGGAATCTAACTCAGCGGAATTGTATCCGTACCT

Sequence 61

TCCACTCCCGCGGTGGCGGCCGAGGTACACGTTACTGTTCCGTCGTATTTGTAGTCTCT
GTTCTGCCCTTTGGAACATCTNTTCGGTGTTCCTGTGGGATCTCTCTACTGCATTNTA
CT
TTATGTAATAATCTGTTCAATAAATAATTTTTAAAAGGAGACAACAACGCCGCAGGTGAT
CTGGAGGCTCCTGGAGGACCTCAGCGACTCAGGTCCAGTCCAAGGAGGGCCGCAGATCAG
GCTGAAGGATGGATCCACATGTTTAGAGGAGATCGAGAAATGCAGAAGAGAGATGCAGCA
GAGAAATGCCACAGAAAGGGGAGCTGGAGAGAATCAAAGCATGAGAGGAATTCACCTGC
TGCTACTGGAAGGGGTCCAGATGGAACGCTTGAGAAGAAACGTGTGTAGCATCTAGGAGT
AAAGACTCGCCCTGGCTGACAGCTAGTAAGGAAATGGGAACCTCANTGCTGCAGCCTCAA
AGAATTGACTTTAA

Sequence 62

TGGCGGCCGCCCGGGCAGGTACAATGATGGCTGTCAACTTCGTTTGTAAAAAAGACA
ATTTGAGCAGGACGACCCTCTCCAATCTGGGTAGCATGGTTAGCCTGTGCAGTAACAACG
TAGGCTCGGAGGATGGGTACCT

Sequence 63

TGAGTGAGCCTAACTCACATTTAATTTGCGTTTGGCGCCTCACTGCCCCGCTTTTCCAG
TT
CNGGGGAAACNCTGTTTCGTTGCCAGNCTGCATTTAATGGAATCCGGCCAACGCCGCCG
GNGGNAGGAGGGCGGGTTTTGCCGTATTTGGGCGGCTCTTCCCGCCTTCCTTCGGCCT
TCAACTTGACTTCGGCTTGCNCCTTCGGGGTCNGTTTTCTGGCTTGCCGGGTGCGAGNCCG
GGNTATTCAANCCTTCAACTTCNAAAGGGGCCGGGNAATTACCGGGTTTAATTCCCAAC
CAGGAAATTNAAGGGGGGGAATAAACCGCCNAGGGAAAAAGGAAAACANTTGTGGAAGC
CAAAAAA

Sequence 64

GGGCGNTGGGCTGGAGGAGNGGAGCGGCNNCAGNAGGGGGGCGCCGGCCNCCCCAGCAGA

Table 1

NGNCTCCAGCAGCAGNNGNANCTCTGAGGCTCCANCNCCCACAGCACCGAACAGNGGGNN
CCAGCNCCACCAGGGGACCCNNGGANCCCCGGGCGACGGCNGANCCAACNCNGAAGGAGNC
NNAACCTNNNCNNTTGAGCGGNGGNNCNCNCCCGCGACCCCGAGCAAAAGGAAGCCCAG
CNGGAGGGGCGGNGGANNGACGCCNCGGGGGGGCACAAACAACNNCNAAGGAAGAANN
NGCCACCCACCAANCCNNANCAANACAACAANGAANCAANACAACANAACCCAAAAAC
GAGNAAAAAAAAA

Sequence 65

ACCTTTTTTTTTTTTTTTTTTGGAGGAGATGGACAGTGTCACTCTCTGATANGGNGG
T
GATGGGTAGGTAATTTAAAGCTTCTATTATAAAATCTAGTCTCTCTGACACTGCCCTG
T
CCACTGCAGTCACATCTCCCAATACTGAAGGATCCTGAGAATACCGAGCNGGTCATGACA
CTTACTCACGTCATTCAACANTTTTTTGNACCTGCCCCG

Sequence 66

GCGGTGGCGGTNTCCCGGGCAGGCCACGCGGAAATCCCTAACTTCCTTGCTATCTTCCC
ATCCCATATTTAGGTTAGATAGAGAAGTGTGTATGTGTGTGTGTGTGTGTGTGCTCGCA
CAGTGATGAAGTGTAAACATAAATGAAGATATGGAAAAATACATCAATTAGGACAACATG
ACAATTTCACTAGACTCCTATCAAAGAGTATCAGTTCACAGTTNNTNTAGATACTAGTA
T
AAAATTCAGATCTTGACTGTTTTCTGGGGATAAAGCANGGCTTTACAATTTAGCAGTNTG
NAGCTAGCTTGAAACAGTAAACAACAACAGCAGAGCCTTAAGTGTATTTTGTGACCTA
AAACATGAAGTCAAGGTTTCCAAATTCCTAACA

Sequence 67

AGGTACTTGAAGGATAAGAAATTACTGTGTCAAATTACCCACAAGTTAAATGCCCATGTT
CCAGACCTGTGGCTCTTAGTATCAGGCTTGTGATAGAGAAAAGGCTGCTATGAATCTAC
TCAGTGTGCTTAGACCAAAGGAAACCACACAGGGATTTCACAGGC

Sequence 68

GGATAAGAAATTACTGTGTCAAATTACCCACAAGTTNNTTGGCCATGTTCCAGACCTGTG
GCTCTTAGTATCAGGCTTGNGATAGAGAAAAGGCTGCTATGAATCTACTCAGTGTGCTT
AGACCAAAGGAAACCACACAGGGATTTCACAGGC

Sequence 69

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCATTTTCATCTTGCACCCGCAATAC
CAGGGATTGTTGCGAAGAATCAGTTGTGTTATATTGTCCAAATCATCAAAGATACCCTGA
GGTAAATTACTTAGGTTATTATTGGACATATCCAGTCGATAGAGCTGCCTTAGATAAGAA
AAAGCATTTGGGGGCACCCGATTGATGTGGTTATCTTGAAGATAAAGCTTCCTCAGGTTT
GTGCCTGGAAGGTTTACTGGTGCAGCAGTCAGGGAATTCCGCACCAGGGACAGCTCTGTC
AAATTAAGTGGTTGAAGAAAATTTGTACCTAAACCATGATTGTTCAACAGGTTTCCA
TCTAGAACCAGGCGTTTTAGACTAGTGAGACCTTGAAGAGATGGTGATGAAATAGTGGAT
ATGCGATTATCATCCAAGCGTAGTTCTTCTATAGTCCTGGGCAAACCCAGGGAATTGTG
CTAAGGTGATTACGGGACAGGAAAAGCAGTCGGAGATAGTTGCTGTCTCGGAATGCTCCC
TCTTNTATGCTAACTGCAGAGACAGAGTTGNCATCTAAATGTAATCTTCCAGATAGG

Sequence 70

NATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTGAATAAAAGGCTTTGGTTTCTCTG
ATGTCTTCCAATCAATCACACAGAGCTTGCCCTGATACTCAGCCACACAGTCCAGCAGAC
CTATATAGTTTAAGGTTTCATGTTGAACAGCACTTTCAAGAGCTCGCACTCCACTGAC
AT
CTTTCAGAATATGCTGGACACTTTCAATGTAACCAGACTTGAGGAGATTTTCATCTCTC
T
CTTTTAAGGTTTCTGGGGTGAAAGTATGCTTTCCAAGGCTTCGTGGAACCGTTTCCC
TT

Table 1

GTAAAAAGACGTTTGAAGTGTATTCTTTAAAGCCATCTTCTCCCAGTTCAGAATCATC
C
CGCTGTTTCCACCTCTCCAACAAAGAAAACCTGTTGTTTTGGTCATGGTCTGCTGAAGGA
CTCGGGTCACACTTGGTATCACATTCTTTGCAAGGGGATTTTCAA
Sequence 71
AGGTACTTGAAGGATAAGAAATTACTGTGTCAAATTACCCACAAGTTAAATGCCCATGTT
CCAGACCTGTGGCTCTTAGTATCAGGCTTGTGATAGAGAAAAGGCTGCTATGAATTCTAC
TCAGTGTGCTTAGACCAAAGGAAACCACACAGGGATTTTACAGGC
Sequence 72
GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATATATCATTTATTCAAGAGGCAGA
TTTTAAACGTTTTTGTAAAAAGCTAAATAACCCCAGAGTGACTCAAAAAATTTCTCAA
C
TTTGCCCAAGTGAATAGTAAGTCTAGAGTTTTTTGGGTTTTTTTTTTGTGACAGAGTTT
C
TCTCTGCCGCCCAGGCTGGAGTGCAGTGGCGATCTTGGCTCACTGCAACCCCTGCCCG
Sequence 73
GGCGGTTNTGGGGGGCAACACCGANCCGCAGAGNCACACTNGCAACAAAAGGNACTTNTT
TGGGGGGGGGAAAAACCCCGGCCCNCCNGNCAGCNGGACCATCNAATTTNNTCCNCCNC
CNCGGAGCNGCNCNCCNAAAAAGCNCANAACAGNAGAGANCAGNNGNCNCNCGNNGCAAAN
CNAACANANANNCANGCAANGGAGGNGNANCNCCATGCTTTTTNGNNGGGGGGGGNGCG
CNACGCNCCNNGAAGAAAAAACGCCNCAGNAACGGGGGGGGGNAGGACCCAGCCNCG
GCGGNCGCNCNAGAACCAAGNGGAACCCCCCGGCCNCGCAGGAAANCCGAAANCAAGNCN
NANNGAAACCCGNNAACCNAGANGGGGGGGGNCC
Sequence 74
CCGCGGTGGCGGCCCGCGGGCAGGTACCTTGTGAGAAGAGGAAGAAGGTGATAAGAACTA
AGATCAGAGCATAGTAGAGAAAGTAGCCCTGTAAACAGAGGAGAAGCAGAAAGAGAGAGG
GGAGGACAGAGCTTTTATTTTGTCTCAGGTTAAAAAGAAAAAAGCACATTCAACTCT
ATGTAGTGTCTGTCCCAGGTCCTAGAACTGGAATAGACCAACCAAGCCCAACCCCTTCTTA
AAAGTAAGACTNNGGTGCTTCCTGATTATATATTCAACTGCCTGGAAGCATGCAAGTAAAA
TTTCCTTGATGGCATTCTAAGTTTCAAACATATTCTTNCTAACAAATGCATTTACAAAA
AAATATTAGGGATTGNGGTTTTTTGGTTNGGACTTTAAAAAAAATGTTTTNAAANC
C
ATAATTGGGGGCCCTACCCCAAATGGATTCTTCTCCCTACAGGTGGAGGGTTTCATTT
TTTC
Sequence 75
GCGGCCGAGGTACGCGGGGAGGCGTTGTGGGAGGAGGTGCGGGGAGAGAGGAAGGGGCCCT
GTGCACTGAGCNGGCATCAAACCTATTAGTGGATGGCCTTGCCTCTCAATCTGCAGTAAAN
AGGAAACTAATCTGAAAGGGAANGANAGGACTGTGTGNCTTTTATTTTTTAAATACGG
AGTGTGCANTTTTACTGAATCTTGAATCATGCC
Sequence 76
CTTGCCCTTGGNTCGGGGGCCNTTNNCCCCCAAGGGATGGGGNCCCNTGGNGTANGT
GTTNNGGGGCCAAATANGAGCGGANAGGTTAAAANCNAAGTAACNAACGACCGTAATCG
TTGTAGTTCCAAATGGGGAAATTGGGGTNTTTCGGGNGGAACCTTAAGAAAGNGGCCTT
CCAAAATTGGNGGTTNNGGGGGGAAAGGAAAGGAATCCCCCCTTGGCCAANAAAAAACNC
CCACNCCAAACCCCAAGGAAAACCGTTGGGGNTTTTTTGGGCCCNNTNGGAAAGGGGC
NTNGTTCATACCTTGGGNANGGAAGGNAAAAATGGAATTTTCTTGGGGGGGGGGCTTTG
GTTCTTTTAAATTGNAAAAAANATTNAATTAACGGACCCATTTTNTCTCNAACNAAAT
AAAAGGCCCCCCACGTTNNTTCAATTCCATCCCCCAATTTTTNTCCCTNCCCCCTTTT
T
TTANCCCTTTTTTTTCTAAAGNATTGGGCCAAAGNNTTNTCTTCNTTTNTTTNCCA

Table 1

A

CCNATTTTNAANGGGGGCCTTGGGGTTTTNGNGTTNTTCAANAANAACNTTTTTTTTT
GN
GGGGTAAGTCCCNACCCGNGNTANCNTTGGGTNCAAGNTTTCNNTTCTTGGGGGGGGA
AAAGGCTTGGNGGTTTCCAANGTCCNTCCAATTNTCCTTGGGCCAAANGGGGGGCCTTT
NCCTTCCCCTTCCCCTTNCCTTGGTNNCTTTTT

Sequence 77

AAAAAGNGAATTCCANCNTGGGGGNCCTTGGNGAAAAAGCCTTCTTAAACCANGGGCCAA
TTTGGCNCAGGCCCTTAAAGCCTTACCCTGGCCAAGTTTTTTGAAGAGCCAAAGGGGGG
CAAGNGGGTTCAACCTTTTAACCCCTTGGCTTGGTTCTTGGAAATTGGTCNTCCCCTTGG
GGGGAACCAAAAACAAGGNAGGGGGCCTTGGCCACCTTCAACTTGGGCCTTGGAGGTTCCA
AGAACCAGGAAAAGGAAGGGGGAATCCATTCCGGGGACCTTGGGAAAAGNCCTCCTTGGG
CCAAGGGGGTAATTGGGGCTTAGGCCCTTGGGGTTTACCCCGGTTAAGTTGAAGAA
AAATTNGGGAAGNAAGGGGGGCCCAACCTTGGCCCCAAGCCNTTAACCACCAAGGAA
ATGGTTTTTTTTCCCCAAGGGGAACAAAACCAAGGGGAAGGGGCTTTGGTTGTTTTCCC
ACCTTTGGNACCAAGGTTTTTCAAGNACCAAGGGAAAAGGTTGGGGGAAAACCCCAACCT
TGGGGGNACCCCGGGGAAAAGNCCTTCNTTANNCCAAAGGNTGGGTTTTGGCCCCCAA
CCCCTTGGGGGCCTTAANTTTTANAANTTGGGAAGGCCCTTTTTGGAAANAACCCCAAG
GCCCGGAAAAAACCCAAATTTAAAAATTCAAAAAAGGGAAAGGCCAAGNTTTTCNTT
GGTNCNNAANAAGGN

Sequence 78

TCCCTTTAAGTGAGGGGTTAATTGCGCCGCTTGGGCCGTAATCATGGTCATTAGCCTG
TTCCTGTGTGGAAATTGTTANTCNCGCTCACAAATTTNCAACACCAACCATTACGGAAG
GCCCGGGAAGNCATTAAGGTTGGTAAAAAGCCCTNGGGGGGTGCTTAAATGGAAGNTG
GAGCCTAANCTTCAACATTTTAAATTTNGCGGTTTCCCGCTTACCTGGNACCCGGCTT
TTTTCCAANTTCCGGGGGAAAACCCCTTGTTCGGTNGCCANCCTTGNCCATTTTAAAT
GGAAATCGGGCTCAAACGNCCCCGGGGNGNAGAAGGGCCNGGTTTTTGGCCGGTTATT
TTGGGGGCCNGCCNTTCTTTNCCGGCNTT

Sequence 79

GAGGTACTTTGGGCCTCTCTGGGATAGAATGTTATTACGCAGGCACACCAACAAGAAG
GGCAAGTTTCCAAGGATTTCAACCTGCTTCAATCAAGAATGGGGCGGGGGGAAAGAATG
AAAGAACCAGGAATGGGTGGCCAAGGCCACAGGTTTCGTTTTNGANTCCTCCCACCC
TTTGGGGTTCCCCTTCCCGGCCCGGAAAAGGTGGAACCCCGNATGGTCCCCTTTCCATA
ATTGTTTTTAACAGGGTAAAAATAACAACCTNGCAAGAAAATNCTTCAAAGGGCCTCCC
AAGNCCCTTGCNTTGAATTGGGTGGAAGAAGGTGAAAAGGTTCTGGTTCCCCCAAG
NACCCCACTTGGCCCAACTTGGAAACCCCTTGGTCCTTGGCCGAATTGNTCCAAGGTN
GGGGCCCCNTTGGTTTTGGGGAATTGGTAATCCAAGNAAGGAATTGNAAGNGGGAAGC
CCCTTTGGGGGGNAANGCCCCTTGGGGCCCCAAGGGGTTTTTCTTGGGCNTTGGGGTT
AACCTTGGCCCCCGGGGGCCCCGGGGCCCCGGNCTTCTTAAGAAAACCTAAGGTNG
GGGGAATCCCCCCCCCGGGGGCCTTNGCNAGGGGNAANTTTTCNCAATTANTTCCAAA
AGNCCTTTAATTCNGAATTNCCCCCGGTTTNGAACCCCTTTGNANNGGGGGGGGGGGC
CCCCGGGGTTNACCCCAAGNCNTTTTTGGGGNTNCCCCNTTTAAANTNGGAAGGG
GGGTTTAA

Sequence 80

TGGCGGCGATTACTGTGCGAGAGGTAAAGGATATATGTGGCTACGATTACGGCCTCTCT

Sequence 81

GCGGTGGCGGCGGAGGTACAGCCAACCCCTAGGTGTGGACCAGCTGAGGCACGGTGGGC
ATGATATGCAGAGGGACTTGGGGCTTGGCAAAGGGTAAGCACAAAGAAGGAGTCACGGG
TTCTGTTGAGGCACTGTTGGGATTAGGAGCCGGAGGGGACCTACTTTGCAGGAACCTA

Table 1

GCATAACTTTGTGTGACGAGACTGCACAAGACAAAGCTCANGCAAGTGGCTCAGTAGTTG
GCCAGCCCAGCAGGGTCCTCTGTATGAGTGTGCACCCAGCTGAAGAGAAGAAATGGAGAG
CAGCAATTGGAGCTTNAGGACCGGCTTGCACTGTGGCTCCAGGTTATACCACCACTGCCC
AAAGCAAAAAGCTAGAGAAGCAAGTGGAGAAATGCTGGGAGAAAGCTG

Sequence 82

TGGCGGCCGAGGTACGCGGGGGAGTCAGTCTCAGTCAGGACACAGCATGGG

Sequence 83

CGAGGACCTTGTTGCAGCTCTTTATTTCTTAAGTCCCCCTCCCCGAGGTAACACATTT
CT

GCTTTTTTAGCTGTTTCCTCTAGTGTAGGTTACCTNGCTAATTTTTGATTCAATCACT

T

AACCACCGTTACATACTACAAAATATCACTATATTATGACCATGATTATTTTTNTTTTC

TTTTTCCCTTCATCAAGGAAGTTCATCAAAGAATTCATCAAAGTTCAATGATGACCTC

T

TTTTAAAATTTTCTTAGTATTCTATGTAACATACCCGATCTTTTCCCCACACACTTCAA

GAGGCTTTTTTAAANATAATNTTTTACATAGGCCNTTGAGGCACANGATTAACCAAATCC

CTNTTTT

Sequence 84

GTGGCGGCCGANGNACTNNGGCCTATNTGNGANANAAGGTATTNACCNNGNNCACAACAA

ANGCATNNTCCATATTNNAACNGCTCATCATATGGNGNNAANATNNGACAGANGGTGCA

ANCACNNTNCACTNGATATACNCCTTGGTNCCTCCGGCCGCTCTAGAANCTNANTGGGAT

CCCCCCCAGGGCCTGCAAGGGAAANTTTTCGAATAATCAAAAGCCTTTATTCGGAATAAC

CCCGNTGCNGACCCCTTNCGAAGTGGGGGGGGGNCNCCCGGGTAAACCCCCCAAGACCT

NTTTATGGTTTTNCNCCCTTTTTTAAAGATTGNAAGNGGGGTTNTAAAATNTAGGCCNG

CC

CGCCTTTTGGGNCNGNTTAAAAATTNCAATNNGNGTTACAATTAAGNCCTTGGGTTTTT

TT

CCCCTTGGTTGGTTAGGAAAAAATNTTNGATTTTAATTACCCNGGCCTTTNCNAACNAA

AAATTTTTCTTCCACCAACCCAAAACCAATNAAACCTNAANTCCCCGNGGGGNAAGNC

CNAATTAAAAAANGATTTGGTTAAATAAGGCCNCTTGGGGGGGGGTT

Sequence 85

CCGCGGTGGCGGCCGAGGTACTTATATTACATTATGCTCAAATGCAAACACTTATGCTAA

ATGTTATATTTGGGAACAAATTGTGTAATATACTGATGACGTCAATGGATCATTACAA

T

TAATGTAGGTGCCGTGGGCAGGAAAGCTAACTTTANCTGAAAGCATCTNNAACGTGCTTA

TTTTTCATGGGCCCTCAAAGGAAAGGGATGAGGCCAGCCATAAGGAANGGCTTGGCCAAA

TATAGTTCCTGTTGTCAAGAACAAACAAATCCCATTTACAACAGAACTAACGCTGGCAT

GCCATTCTNTCCTNAGGTTCTTGGCGTGCACTGAGCGAGGCCNNGGATGGCAGTCAAGGAT

TCATTCCCTTG

Sequence 86

CCCCGCGGTGGCGGCCGAGGTACATCCCTGTTTATCCCATTCCATCCACCGAGGCCCAAC

AGCATGGATGATCTGTTTGCAGGGAAGCCTCCCTGCTCCCGTGACAGCTATCTCACCAGC

TGACACTTTACCATATCTGGCAACAACTGTTTGCTCTCTTCTTGGATTTCAAATCCAC

C

AGCTTTTACCAGGGCCAGGGCCAGGCCTCCCCCATGCAGAAGATCTTCATTGGCTGCATT

CACCACAGCATCAACAGCATGTGTGGTGAGGTCATCTTCCACACTGATAACTCTATCCT

AGGAGTCAGCATTTTTCTGAACACTTGCAAGATTTGCTGTTGCCTTCCTGAACTGGAGA

GACCAGGGTAGAGATACAGCCAACTTATTCTGGAGGACTTCACACAGCTGACGCTCATT

ATTTTTTAAATTTTAGAAGTCATTGGTGGTTAATGG

Sequence 87

CGGTGGCGGCCGAGGTACTCTTCAAATTTGTCAAGGTCATGAAAGACAGCAAAAAGTGAA

Table 1

GAATTCTTACAACTAGAGGAGACAAAGATTGGAGAAGAAACAATGACTGGCTGGGCACG
GTGGCTCATGCCTGTAATCCACTTTGGGAGCACTTTGGGAAGGCCNGAAGAGGGACAGAT
TCATCTTAGNGTTTGGGAAGTTGNGAGAACGAAGCNNTGACTCAACGTTGGTAGAAAACN
CNNCATCCCNATACCTATAATAAATACCAGGAAATTACGCCTTGGGGTCGTNGGTTGGNTG
ACATTGCCCTTATTAATNCCCCAGCCTTACCTTTGTGAAAGGGCNCCTCCGGNCAGGGA
AGAAATTNNACCTTTNTATACNCCGCGGGGAGGGGCATGAAGTGTGTTGTTGNGTTTGAA
GCNCCAAAAAAATTTGGCCGCCCATTTTGGNCAACNTCCANGCNCCTNGGGGCCAANC
AAAGAAGCCGAA

Sequence 88

GCCCANAAAACCGTAAAAAGGCCGCCGTTGCTTGGCGTTTTTCCATTAGGGCTCCGCC
CCCCTTGACCGAGCCATCACCAAAAAAATTCGACGCTCAAGGTCAAGAAGGGTTGGGCGG
AAAACCCCCGACCAGGGAACNTATTAANAGAATACCAAGGGCCGTTTTTCCCCCCTGG
GAAAGGCTTCCCCTCCGTGGCGCCTCTTCCTTGTTTTCCCCGAACCCCNCTGGCCGCCTT
NACCCGGGNATTAACCTTGTTCCCGCCCCCTTTTTCTTCCCCCNTNCCGGGGGGA
AA

Sequence 89

CGGGCAGGTACCGCTCAGCCTGCTTGTTGTCATCCTCCGCATGGCGAGTCAGCTCTGAGA
TCTGAAGGTCAGCATGCTTACGCTCGGCCTCACATGTGTCAAAGTGATTCTGGATCTCCT
TAAGTCGATCCAACATCTGCAGNTGCTGGTTTTCCCCATTCTCCAGTTCACGTGTTAA
AT
TCTCTACTTGTGATGCCAAATGTGCTTCTNCTTGCTTTTTCTTCCATGCACCGTTTN
A
CTTCCTTTAACT

Sequence 90

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATCACAAAGCAGACAAACAG
GAAAGACTGAACCATCTATTTGAAAAAAGTGACTTCATTCAATTGGTTCAGCCACCCGTA
TCTGTAATCTCTCCATTCTGCCCTCTTGATTTAATGCAGCTATAAAGGAGAGTATTTT
A
AAAGTGCTCCCAGTAGGAAGAAGCAGTCACAAGGCACTGTTATATCAATTCAGTGTGACA
CAAGCCCTGATTATTTAATAGTATAACAGCAGTGAATCAGAGTTCCTTCATCTGACTTT
G
CTGACATTNCCAGCAGCTGNATATTTAATTCACAGTTAGGGGCTGGACAACTACAGCCN
TTGATCAGAATGGAAGCAGGCATCCTTGAGCTTCTTCTAGGAACAAATACAGATGTGCAC
AAAATTTTCATTTATTCAGT

Sequence 91

GATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATCACAAAGCAGACAAACAGGA
AAGACTGAACCATCTATTTGAAAAAAGTGACTTCATTCAATTGGTTCAGCCACCCGTATC
TGTAATCTCTCCATTCTGCCCTCTTGATTTAATGCAGCTATAAAGGAGAGTATTTTAA
A
AGTGCCTCCCAGTAGGAAGAAGCAGTCACAAGGCACTGTTATATCAATTCAGTGTGACACA
AGCCCTGATTATTTAATAGTATAACAGCAGTGAATCAGAGTTCCTTCATCTGACTTTGC
T
GACATTTCCAGCAGCTGTATATTTAATTCACAGTTAGGGGCTGAACAACTACAGCCATT
GATCAGAATGTAAGCAGGCATCCTTGAGCTTCTTCTAGGAACAAATACAGATGTG

Sequence 92

CCCCANGAGGNCACCAAGCATCCCANACCCCTTNNTCCGGGNGGTGNAAANCCANGGCC
GCCAGGCAANGGCACANCAAAANCCGGGCTGCGNCCNGAGCACNGGGCANCCCGAGAAAA
CAAGGNCNCAACNACNGACNGGCNAAGAAGGGGCCNGCCCCNGGCCAACNNACCANACA
GNNNAGAGCAATCTTTTTTNGGGGGNGGAGCACCGGGACCACCACCCNGACAACAAAGGA
CCCCGGCCGGGGGN

Sequenc 93

Table 1

CCCGCGGNGGCGGANATTGGGGGNGAAACCTNANANCANGGAANCTTTGCTTTNNGNCCA
GATTANATTGGGGGNGCTTAAANCCCCAGCGGCNNNGACAGNTAATACACCTCACGTTT
TTNGNAACTGGGGGGGCGAGNACCN

Sequence 94

TTTCCCGGGCAGGNACAGCTCCATGAGGTACCAAGCATCCCATCACCCNTTNCGGCAG
TTGCATGGCAATGGCTGCCAGGCAATGGCACATCAAAATCCGGGCAGCGTCTTGAGCACT
GTGCAATTGAGTCAACAAGGTCTCACTACTGACTGGCTAAGATGGGGCCTGCCCTTGGC
CAACTTCACCATACAGTTTAGAGCAATCTTTAAAGTGGNCTGAGCACCTGGACTATCATC
TTGACTACAAAGTACCT

Sequence 95

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGTATGATAACATTGCAGTCAAACATA
TCTTGTGACAGGACAGTTTTTTGTGGGGAGGAGAATTAGACCAAGTTCGGAGATATATTT
TAGGAACTAAAAGGAACGTAAGATCTGGGGTAGGGGGATGAGCAGCTCCACACCCTGCTC
CTGTGTGAGCTGTGCGCTCCCGACTGGGAAATGTCTAACTCCATCGAAAACATGAGATGA
GGGGCAGGGAAGGGGCTACTTCCAAGCCTTTCATTATAATACTGTGTGTAACCTTTTGCA
TATTTTCAGAAAAGAAACAGTAAGGTGGGTTGAGTTGTGGGCTCATCCTGACTTAGAAA
ATTTTAAATAATTTAGCCCATTTGAAATGTTGATAATAAAGGCATGCATGAATAATAATT
TTTGCTTCTT

Sequence 96

AGAAATGTCGCCAAACTGCCGTCTTCCCTCCTCGGCCGCTGCGACAAACACCCACAAAA
TGGCGGCAGCGCCGTCGCCCTAGAAATCCCCGAGTCGCCTCTCCCCGCGTACCT

Sequence 97

AGCTCCCCGCGGTGGCGGCCGAGGTACCTTCCCTGAGGAGCCCCCTTCAGAGGGGCGAA
GAGCAGTATCTTCAGAGGCCATCCAAGTTTTAGCATAACAAGGAGGGAAAGAGAATGCAG
AGAAGAGGCTGGTGATAGACAAGTTTCATGTTCACTTGAATTGCAGAGGTCAAGAGT
TTAAAGAGTTTGGGATGGAAGAAATCGAGAATTGGGCT

Sequence 98

GCTCCCCGCGGTGGCGGCCGAGGTACCAGCAGAGATGGCTTCAAGATGATTTAGGACTTG
GGTCAGTAGCACTTACTGATGTAGTGGTTTGATACACACTGATTACCTTCTTCTTTTT
T
ATTCTCTGGCATTCTCCTATATAACTAGCCACTTTTAAACAATATTTGTCGGCTCTTTT
CTTCTGCTTGTCTGTAAATATTAGGGTTCCTGAGTCCTTACCTAGATTTTCTTCTCTTC
T
TACTCCTGGCCTTTCCTTGGGAGAGTTCATAATTCACCTACTCCATCTAGATATTTGTG
A
TGTCCAAACACATCTCCACGTTAGGCTTCTATTTGTAGCATCAGACCCACACTTTCAA
CT
GTCCACTAGATAGCCTCACTTGGATGCTCTGCAGGCCTAAATAACCTTTGCGGACAGATT
AACAGGGAAAAAATATTAATAGGAAAAAATATAGATTTTATCTGATGGTAAT

Sequence 99

TGCGTTGCGCTCACTTGCCCGCTTTCAGTCGGGGAAACCTNGTCGTGGCCCAGCCTGCA
TTANATTGAAATCGGCCAAACCGCCCGGNGGAAGAGGGCCGGTTTTGCGGTAATTGGG
GCGCCTCTTCCGCTTTCCTTCGCTTCACTGGACTCCGCCTTGCGGCTTCGGGTNCNGTT
TCCGGNCTTGGCCNGGCCGAAGGCCGGGTANTTCAGGCCTCCACNTCAAAAAGGGCGGG
GTAAATNAACCGGGTTAATCCCACCANGAAATTCAGGGGGGGAATNAACCGCCAGGGAAA
AANGAACCATTTGTTTGAAGCCAAAAAAGNCCCANCCAAAAA

Sequence 100

GAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTAA
ATATGTTTTAATATGCATATCATCCAGGCAGCATAATGTTATATTTCAAAGACAGATTTA
TCCATTGAATTATTGTTTTAAAGTTGGGATTCTCTACATAGAACATATTTTCTGAAAT

Table 1

TTCAAGAATATTTTCAGGTAAATTAAGAATTAATTTCTTCTAAGACTATCCAATGNGTCT
CAATCTATTCCATAATATAATCAATGATAAAGATTACATGTATCACCAAATTCGAGGC
A
GCTTAGTTGAAAAATTTGAAACAGCTTACTGAATTCCATTTGCTGATTCTGNNGGGGGCT
TCCCCAATGGCATGNGTGCTCCTTTGGATGCCTGCAGGGGTGGTCACTGCAAAGTCGTCA
TNTGTGCCACTGGGAGTTGGGGAGGCGCCTGCTGGGGTTCCTGGGT
Sequence 101
GGCCGAGCCCAATTCTTGATTTCTTTCCATCCCAAACCTCTTTAAACTCTTGACCTNTGC
A
ATTCANGTTGTGAACATGAAACTGTCTATCACCAGCCTCTTCTCTGCATTCTCTTTCC
C
TCCTTGNGTACTGCTAAAACTTGNATGGNCTNTGAAGATACTGCTCTTNACNCCTCTGAA
GGGGGCTTCTNAGGGGAAGGTACCTCGGCNCGCTCTAGAAGTAGTGGAATCCCCCGNGC
TGCAGGAAAT
Sequence 102
CGGGTCCATAATAATGCAATTAACAAAATCCAGGATTTAAGGATTTNTATAAGATTAAAA
AAAAATGAGGTGGTGTCTGAGTGGGGAGAGAAAAAGCAGGAAACAAAACCTGGTGAGAGG
AAATGACCCCTGATGAAAGATCTTAAACACCAGGCTGAAGATTTAGATTTCTACCTAT
TAGAAATGAATATTCACTGAGGTTTGATGAAGAGTCACTGAAGTGTACAAAGAAAAACAA
GATTTGAGAAAGATTCTTGAGAACTCGTGCATAGGAATGAACTGCAATAAGGGCAGATTA
GAGAAGAACTAGGCCATGAGGGCCTAGTATCCAGAATGAGGCAGAGGGAGGGACGCTGGA
TGTGAGCAG
Sequence 103
ATTGAGCTCCCCGCGGTGGCGGCCGAGGTACTCCTTTCTTGTTTAAACGCCTCACCCTG
ACCACGGAACGTCTTGATAGAGCCATCTAGTAATTCTTAAGTCCTACCTCATCCAACCTT
GTTTTGACTCCTGCACTGAGCACAGCTGCCCTCACCTCCCCTCTCTATGCCCTCACCTT
TGCAGGAGACTCTCAATTTCTCAGTCCACATCAGCTCTNAGACCACCAAANGCAAGGGTT
N
Sequence 104
TGGATTGAGCTCCCCGCGGTGGCGGCCGAGGTACACGTCAACACGGGTGGTTGCATGCAT
TCCTCAAGTCTGTATGACTCTACCAAGATACTGTGAAGTTGTCTTCTGATTGCACAT
GG
GGAGAAAATGCTGAAACTAGTGGCCACAGATGTCTTTAATTCCAAAAACC
Sequence 105
AGCTNCCGCGGTGGCGGCCGCCGCGGCAGGTACTTTCTAGGTATATCATGTGCCCTAATG
TGCTCCTAATATCATAAATGTTTACTTTCCGAAAAGTATTTCTGAAAGGGAGCATATTT
T
GAAAAGTGCATAGGCTTGTAATCATACTTGTTTTCAAGTTTCAACTTTGCTATTCAACT
A
GAATAATCTTGTGCAAAACCTGAGCTGATTTTCTCATCTATAAAATGGAAACAATACTT
T
CTGTGATAATGGGTGCAAAACACAAGGTATACTGGTTTCTTTGCTCTGGATTCAAGTT
TT
CTTCTTAGTTTCAAATTTTAAAGGGAAACCAAAAATGTTTCATGGNCCNNNCTNGCNGG
NANGGGANTTTTCCNCNAAAAAAAAAANTCAACGGGGGGGGTTTTTNCNNNTGGGGANN
CCCAAAAAGCCGNNNTNNGGCCANGTTTTTNNGNNNCTTTTGTNAGGGGNTTTNNGGGCC
NCCCTGCTTTACCCCNTTTTTANATAACNNCCCCCCTTTTGGNNTNNGGGNGGGGNNT
TATATATNTTTNNGGGGGGG
Sequence 106
GTAGTGGGCAGCGATNAGGGCTGGGGCTCTTTCCTGAGTTGTGTCAAGGTGAGAGATTGT
GAAGAACTTGGCTTGCAGGGTTTGGGCATCAGCTGCCCATGAGGGGCCGTTTCATTGTCT

Table 1

CAAAGTGAATGTGGGGTGGTTTGATCTGCATGTGTCATTTGTATCCACACAAGTTAATTA
TTCTGCTTTTGTGTAGTACCTTGGTTGTGAAGCAGAAGCTACCAGGCGTNTATGTGCAA
GCCATCTTATCGCTCTGCATTAAGTAAGATGAGGATTCACCTTAATTTATGGGCACAT
T
TTAGTTCCTTCCACACAAATTTAAGGCCTTAACCTTNATTTTTCTACANTGGNGGG
T
TTTGGGAAGTAATATTCATACGGGCATGGGACCT

Sequence 107

CAGAGAAAGCTTGCCAACGGTGATAAGTAGGTTTGTCTAGCAGCACTGATGCGTCGTGGA
AGTTGATGGTCATGAACATACAGTGTGATAACCTATCTGCCCTCTTGACCTTTCTAGT
A
GTGCTATGTCATTTTGGTACTAAGGTAGGTGAATTTTCCAAGTGTTCTTGAAATAAG
GA
AACATCAAGAATAATGTAAAGCCTCATATACAATAATGAATAATAAAGAATAATGTGAA
GGCTTCATTCAAGGTTGGGGTTTGCCAGATACATTGCAACAAAATGACAGAGCAGCCAAG
GTATTTAGGGATAGTGGCCAAAGTATTGTAATGATGGCTTATGGGAGTGTCAAGCTGGAT
AAAAGAGTGAAAAATGGAAATAAAAACTAATGGGATTGGTTCNANTCCGAAATAGGCAG
CNCNGCCCCAATGGCNCCTATNGCCCCGGTTTNAATTAGGGG

Sequence 108

NCCGGAATGGAATTCTACATCAAGTGTCTGTGCCTCGCTGCTGAAGGATAACCCAGAGTG
CAAGGTCATCTTTGTTGCTGAACAGGGCTGGACCTGTCGCACTTAAGCACACTTAAGGA
TTCTATTCTTCATTCAAGTCCCCCAGAGAAATTGGCTCCTTATTTTCTTTACCTATTC
C
TAGACTTCCTTTTGTCTAGAGCCAGTTTGCAAAGGGCACTTTTATCCATCTCAGTTAT
T
CCCAGAGGTGACAGAATGAGTAAACCATATGGGGCAAATAGCATATATGAGCTAAACCAG
NTAACTGTTAACCAAGGCACATGGTCAATGCCTTAGTATTTTTTTTTTTAATTCTTCC
TAAACGGTTATTTTCTAGCTGTACATTCCCAAAA

Sequence 109

GCGTCCGAGACACTTCTCTGACTAACCATAGACTATGTGGAAAATGGTAGCTGGATTGCC
TTTGGGTGGAGTCCTTGCCCTGTGGCATAGGAAACAAAGGAAAGGAGAGAGATGCCCTTT
GAGATTAATGAAAATGCTCTCAGCCAAATAAAATCTAAAAATAGCCTCCTTGTGATACGA
ACGCGTGGCCCCTAAGGGTCTAAAGAGAGAGCTAGGGGAGGTTCACTGGCCACAGAGA
TGCTAAAGGTCAGGAGCAGACTTTTAGGGTTTGTCTGTTTTATAGGTTTAAAGACCAGGTC
TGTGTTTTGATAACTGAACCTGCTAATAGCTGGCCACTTGAGTTGCTTCTCCAGCTCT
T
TGTTTGTTTTAAATAAAGAGATTCAAGCCAGTAATAATGGGAAGAGCTGCAATGACTTCC
CCAG

Sequence 110

GTGCTGCCTGCACTGTGACTAAGACTTTCTGGACTATCATCATGTTTAGGAGTTGATGAG
ATTATAGTTTCATGTAAGTGTATCATTAGATGACAACCTCTACATCTTAGGCATGGAAA
C
AAAAATTTTTCTGGAAGAAAAAAAAGTGAACATCCAACCTCCATTTAAACAAATTNGAT
TGTTTCTTTGCTATTAAGAACTCGGTGCTCTTTCTCCCACTCTATTATATTGTCAAAAT
ACATCTGGAGACACTTTATAAACTTTTTCTCCTTTAAATTACCTGGTTTATATATTATCT
CCTGTAGCCTGCATAAACGATAAAGGGTTAAACATA

Sequence 111

GCNCGCGGGATTGGCCGACGCAGCCATGGTAGGTCCAGATCCCGTAGAAGGGAGCGGGT
CCCATAGGTTACGGCCGATTCTGGAGCTTCTGGACTGAGGGCCGCGTAAGCAGTGGTC
TGGGCTCCCGC

Sequenc 112

Table 1

CGTGGCCGAGCGGTTTGCATCGCCGCTCGCGCAAGGCCATGAGGTTGGTCTGGGTGAAGA
ACGCATCGATGGCGGCACGGGCCTGTTCCGGCACGTAGACCTTGCCGTCACGCAGACGCT
CCAGCAATTCGCGCGATGGCAGGTGATCAGCAGCAGCTCATCGGCTTCCTGCAAGACCC
AGTCAGGCAAGGTCTCGCGCACTTGACGCGCGGTGATGCCGCGCACCTGGTCGTTGAGGC
TTTCCAGATGCTGGACGTTGACTGTGGTGAATACGTTGATGCCGGCAGAGAGCAATTCCT
GAATGTNTTCCAGCGCTTTTCGTGGCGGATTGCCGGGGGCGTTGCTGTGGGCCAGTTCG
TTCACCAGCACCAGTTTTGGGCTTG

Sequence 113

GCGGCCAGCCAGACTGGACCCCTTAGCCTCGAGGCCTTTGCTGAAGCTCATGTGAGGGGG
CGACTGCCCTGACATGGTGTGGATTCCAGCTGCTGTGGCCCTGAAGGTGGGTGGTGGG
AAGAACGGGAGAATGAAGCCAGCCTTGGGAGAGGTAGGACGCCAGCCCGGCCAGCTGCT
TCCAGCATCTGGATCCAGCCTCACCTGAAGCCAGCCACCTNCTGGACTGCAAAGTCATTT
GTNAACACCGAAACACAGGGTTTCTGACCATTGCAACCCAGGGTCCCGGCGTGTCTGTGGC
T

Sequence 114

TTGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGAAGCAACTGTCAGCTAGTGAGATTA
CTGTGTATGGCCAATCCAGATAAATAAGACGATCAAGTCTTTATGAAAAGGAAAGAAAAA
TTTGAATGCACATCTCTGTCCAGCTCAATTCCTCACTCCTTTTTTAAGATGGAGAGCT
G
TTAGGTTTGTCTACACAGTAGGAAACACCTGATTAAATAACAGCATGGAGCCAATCTTGA
CAAAGAAATTGGCTGCATCCAATAGAAATCCAGGGCCCGTCTGGTGGCTCATGCCTGTA
ATCCCAACACTTTG

Sequence 115

GGCCGAATCGTTGCACCAGACNAGGCCCCAGGGCCAGCTACTCGAAGAACAAGCCAA
TGGATTGGAACGTCCTAGGACAGATGCCACGGCTTTGACCCAGGCTGGGGGTGCACGGAT
CTCACTGGGGTTAGTTGGTCGGAGGGGAAGCCCCATGGGTCCACCAGGATGAGGTGTT
AACTCTATCAGGGTACCT

Sequence 116

GGGGCTCGTCCGTGGCGGCCAGCGAATTGGTGACGACGCTGATCTTCACGTTGCGCCCGC
GGATCTCGCGCATCACCTCCAGCCCCGTGGCACCCGGAATCAGGTAGGGCGAGACGATGG
TCACTTCGGAACGCGCGCGGGCGCATCTGCTCGACCACGTTGTAGCGCACGCTGTGACAT
CCAGCAGCGGCACGCCGCCGTACGACGCGGTCTTGCCCGATCACGCGGTGAGGCGAATCG
GCATACGCCCTCGGCGGTGGTCCAGATCAGGCCGAGCTTGCCGGCGTTTGAAGGTCTTCGA
CCATCGGGCTGTAGCCGAGCAGGGTTCGTTTGGGGCGCCGGGCTTCGGCGGGGGCCGGGG
GTTTGGTGTGCGGGGNCCCGGTGGGCCGGCGT

Sequence 117

GATGATGAGCTCCCCGCGGTGGCGGCCGAGGTACTCTAATGGAGCCCTCAGGACTGTCTT
AAAAAGACAAAAATACCTCCTACAGTTGTTATCATCAACGTCAGTTGCTGGCTTTTCCT
A

AATTTGTCTTCTACCTCAGATCTAAACATTTGATAACATTAGGGCAATATCATGGCAA
T

CGTGGCCCAGTAAAACCATAGCAAATGTTTTCTCCCTAGGACACTATCTGTTTTACAGG
AAAATTTTTCTCATAGAAAACTGTAGGAAAAGCCATGGGATGAGCTGAGAAGACCAAAC
CTATCTCTTGAAAAACAACAGTAGGGAGCGTNGGATTAGGAATGTCCTTGGTGCCTGAAA
CAGGCAGACCAATCCTGAAACATCTTTCTCTGGGGACCGTAAGGCATGAAAAAATTTCT
ATTACACTTANGGAGGGCTTCTAGGGAAACAGGAAACCGACCAAAAATGGGAATGGGGCC
TTAATTCATTTTTT

T

Sequence 118

CTCCCGCGGTGGCGGCCGAGGTACGCGGGGAACCGAGGCAGCAGCGGACGTGAGCGATAA

Table I

TGGCGGATATGGAGGATCTCTTCGGGAGCGACGCCGACAGCGAAGCTGAGCGTAAAGATT
CTGATTCTGGATCTGACTCAGATTCTGATCAAGAGAATGCTGCCTCTGGCAGTAATGCCT
CTGGAAGTGAAAGTGATCAGGATGAAAGAGGTGATTGAGGACAACCAAGTAATAAGGAAC
TGTTTGGAGATGACAGTGAGGACGAGGGAGCTTCACATCATAGTGGTAGTGATAATCACT
CTGAAAGATCAGACAATAGATCAGAAGCTTTGGAGCGTTCTGACCATGAGGGACAATGAC
CCCTCAAGATGTTAGATCAGCACAGGTGGGATCAGAAAGCCCCCTAATG

Sequence 119

GGTGGCGGCCGAGGTACCTGAACACCAGGCTCTTTACGGTCCCCTGGCCAGTGAAAGGGT
CTAATATAAAACACACCGAGGCTGAAATAGCCCCGCTGCTTGTGAGACCTTCTCAAGCTC
AATGACTACCTGCAGATAGAAACCATCCAGGCTTTGGAAGAACTTGCTGCAAAGAGAAGG
CTAATGAGNTGCTGTGCCATTGTGTATGTCTGCAGATTTCCCAGGGTTGGGATGGGTTT
ATCCTACAACGGACAAGATGAAGTGGACATTAAGAGCAGAGCAGCATACAACGTAACCTT
GCTGAATTTTCATGGATCCTCAGAAAATGCCATACCTGAAAGAGGAACCTTATTTTGGCAT
GGGGA

Sequence 120

GTGGCGGCCGAGGTACCCGAGCTACCAGGCTGTGGAATGAGACCGTGGAGCTTTTTTCGTG
CTAAGATGCCCGTTACGGAAACATCGCTGTCGTTTCAAGAGCTATGGGCATTGTTTCACA

Sequence 121

GCTCCCCGCGGTGGCGGCCGAGGTACAAGTTTATGTTTTCTTGGTGTAAAGGCTTTAACA
GTTCCACCTTTTCAGCTGCCTGGGCATTGATTGCTCACCTACCACTATGACTAGATATGA
TTCCATGTGCTTTTACTAGATTCTTTGTCTCTTGTGTATGGAAGTGAGACTTTAAGT

A

ATAGTTACTGCTGAGAGAAATAGAAGACGTGACAACGTTTGCTTTCCATTTCAGTAGTCA
GCGGTTGAATGGAATTATCTTCGTTTTTGGACTGACAGATTGTTTTACAATTCAGCTA

T

TCCCAAGCCTTACTATTCAAAGCAGAACCCTTCTGTCTCTTTCTGTAGTTGCTCTCTC

T

CCCTATATTCTGTTGTATTTTTTCAAATAACTTATTACTATCTCAAGTAAATTTGTTTT
ATGTTTTGTTTTATCTACCCCTCTTAATCAGGGCAGGGATATGTCTGTTGTATATTTTA

C

TTTTCCCAAATCATAAAGGTTTTGGG

Sequence 122

CCCGCGGTGGCGGCCCGAGGTACACACTGGGATCTCCTTCACTCATTTTTTAACCCTGAC
TGGGACACCAGAGACATGCTGCATCTTGTATTAGGTGTTTCATCTTGCAAGTGGCTGTG
CTCCTGAAATATTTCTGTGAAGAAAATTTGTTACAATCCCATTACATCACTGGCTTTTA

T

TATTAAATTGGAATGTTGGCTGGAAACAATTTTAACCC

Sequence 123

GCGGTGGCGGCCGCCCGGGCAGGTACGCGGGTGTGCAACTGCAAACCAGTAACCTGCTAT
GGCCAATTGTGAAGAGATGGGAGTCTCCCCGATTGCCCAGGCCGGTCTCAAACCTCCTGG
GCTCAAGCAATCTTCCCGCCCCACTTCCCGAAGCCCTAGGATTACGGGAGTGAGCCACCG
CACCCAGCCAGAAAAACGTTTCAAATATTGGAACCTTACTTTTTTCAATGAGCATT

T

TGCATCAAGGGGTAACAGGGACATTAGGCTTTTTTCTCTTAGACTCCAAACAGTAAGGT
CAGAATTTATCAAGACATTACATAGGAGTAAGGGCACAGCCAGGGGGTGGTGGGGGGGAG
GGACATTTTCCAGCA

Sequence 124

GCTCACC GCGGTGGCGGCCCGAGAAATGTCGCCAACTGCCGTCTCCCTCCTCGGCCGC
TGCGACAAACACCCACAAAATGGCGGCAGCGCCGTCGCCCTAGAATCCCCGAGTCGCC
TCTCCCCGCGTACCT

Table 1

Sequence 125

ATTCAACAAATATTTATGCATCAGCTACATGCCAGGATCTGTAATAGATTCTGGGTGTGC
AGTAGTGATTACTGCAGAATGCAGACATGGTCCCTGCATTCTTGAGAGGGAGACAGCAAC
CAATAAACAAATTACAAAAAGTATGTAACATAATTAACAAGTGGGAGAAGGGAGTGGGAT
TACACAGCAGAAGTGGGAAGGAAGGGCCCACTTAGAGTGGTCAAAGGCTTCTTGAAGGTAA
CATGTAAGCTGAGACCTGAAGAAGGATGCAAAAAGGGCCAGCATGTAAGGAACAGAGAATA
AACATCCCAGAAATAGAAAATAACACACAAAAACCTAAAGTCATTAAAGAACATGATCAT
CTTTCAAGAACTAACCCCTTGAGATCAGAGTAGTTTGATTATAGAGGAAAAGGGTGAGTGC
AATGGAAACGTTAAAAATAGCCCAGATCACGTAGAGCTCTTAGCCTTTTGGTAGAAAAA

Sequence 126

GCTCCCCGCGGCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGA
CAATTATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGC
TTTACATCCTTTTGAGGTCCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGA
ACGAGTATTTGCAAAACCATTCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTG
CTTGGAAGCATNCAGAGAAGCTGCTACTGTCTTTCTGGGGCCGTGTGATGGAGANGT
TAAAAATTTGGAATCTAACTCAAGNGGNAATGNATTCCGNACCCNCGGNCGNNTNTANA
ACTAGGGGGATCCCCGGGGCTGNAGGGAATTCGANTAAAGCTTNNTTANTCCCCGCCAC
CNCNNGGGGGGGNCCCCNNCCATTTTTTTTTTTNTTANGGGGGGNTAATNGCCCCC
GGGGGAAAAAANNANAAAAATTTTTNTNGNGGAAAAATTTCCCCCAAANTNTNCA
NAAAAAAAAAAGGGG

Sequence 127

GTGAAAAACAAGAAAGCTGAGAGAAATCAACATGTTCCCAAGTGCTGTATGTGAACAAT
AAATCTGAGACATACCTCTAAGGCTTTTCCAGAGACAAGAAGCTCTCAACCTGTAAAGAA
TTCCTGGGACATGACTGAGAGCAATGAGAACTCCAGTGNCAGAAGGTAGCAGATATAGT
GTAGAGCATACAGATATACTATAGTTCATAACACTGGTGGCTTAGCTGTAAATCACAA
AATAGCACTGGAATTATCTAGTGATCATAGCACATAGTCCAAGAAGAAAAATTTTGATC
TTGTCTTAACTTTGTGGAGCCAGTGGTGAAATGAGTCACACAAAGATGCAACAATGATT
GAACCCAGNCCTCTTTAGACTAACATATTCTTGCCATCACCNCCAATATTACAATAAAA
ATCAAGACCCATGAAGGAGCATACCTTTTTCTGNAAGNAAATATTGNTTACCTCAGCTCT
ATTGGTATTTGATGCAAAACACCCACATGCAATTTGGATCAATAAGACATGGGAAGGGGC
CAAAATGNNACTTCATGCTTAAGGAAAAAAGGAGNGGGGAAGGAGGNCACCAAGCNGG
TNCNGNAATGGGTNAACCTGGGGCATTATANGGGGGNGCTTTAAATACCATTTT

Sequence 128

GCGATTGGAGCTCCCCGCGGTGGCGGCCGCTGTGAAACAATGCTCATAGCTCTTGAAACG
ACAGCGATGTTTCCGTAACGGCATCTTAGCACGAAAAAGCTCCACGGTCTCATTCCACAG
CCTGGTAGCTCGGTACCT

Sequence 129

CGCGGTGGCGGCCGCCGGGCAGGTACAGTCAACGGCCGAAAACCACTGAGCTTTTCCCT
CTGCCTGGCACATATCCACTGCCCTGCCTTCCTTCAGCTGATGAACCTTTCATATGCCTC
CTTTTGGGTGTCAGTGGAATGTCACCTCTTTCTAGAAGCTTCTCTGGCTCTCCAGC
CT
GGCCCAGGGCTCCAGCTATGAGCTTCCATAACACCCCTAGTTTTCTCACATTGCCCTCA
TAGTATATGGAATTTGTTCAATTGCCTGGCTTCCAACAGATGCCAGCTCCAAGAAG
GCAGGAGCTGCTTCTGGGTATTGCTTGCCATCAAGGCCCTCACACCCAACCTAATGCCTG
GGCCAGAGGTAGGTGCTTAATAAAAAATTGTTGAGGCCGGGGCGTGGTGGCTCACGGCT
ATAATCCCAGCACT

T

Sequence 130

GCCCAAGGGGGGGCCAACCCACATTATTTGNNTGGGGCNNNCTGCCCNTTTTTNAANNA

Table 1

GAAAANCCTTNNCCCCCTTTTTATNAAATAAACCCCCCENNNGGGGNGNGGGGGGGGG
GGGNGT NATANNNGNANNNGTCTCNTNTTTTNTCCTTTAATTCNANAAATAAACTT
GA
CNTTCGCTTNGCTTNGGNGGTTTCGGGCTGCGGCGAAGCCGGTATTCAANCTCACTCA
AAGGGCGGNTAATACCN

Sequence 131

CCGCGGTGGCGGCCCGCCGGGCAGGTACCTATCTGCAGAACGGTCATTAGCAGTTTTTCC
AAACAAGCGACTTTTAGCAAATTAACCGTTAATTTAATGAGATTCAAAAGTTAATAGC
C
ATTCTTAACGTTTTATAATTAGAAGCTGTTATATAATTAGAGCTGGACACCCACATGGA
G
AAACTAATTTGACTGTGCTGCATTTGACTTCACTTTGGTAACAGGAAGCACTTTTTAGT
C
TG TAGACCCTTGGGAGTTGTAGGGAGTTAAAGCTGATCATTATATACTATTATATACTT
A
GGGATACAACCCAAGGGCAACCCCTGGCCTTTATGAAAACCTGGAGTGAGTTATTATTTCT
CTGGTAATACAATTCTCTGCCAGCCAGTTGCTGCATCAAAACAGTTCTGATACACACACC
TAAAGTCACCACTTCCTCATTCTGGTCCCAATAACCCCTATAAGCCTCTCCCTTGGAGGT
GACCTCTGCCCTGTGAAGGGTTGGGCTC

Sequence 132

CGCGGTGGCGGCCGAACCGTGGTGGCCGTGATCGTGCCGTTGGCGGACGGAACCTTGAAG
ATGTTCTGGGCGGCCAGCACAAATCGCCGCCCTTGCCGACGATGACATTGTTGGCCTTCAGC
CCGTCAATATCGCCCTTGATGTGATGTTCTGGCTCTCCTCATCATGGCTCAGCGCAATG
GCGGCGTTGCGCTTGCCGGTGCCTCCACGAGGAACAGGGCTGCGGCCGTGACACATCG
CTGGACGCGAGGGTCAGGTTGCCCTGAAGCAGCCCTTCTTGTCCTGGGTGACATCACCG
CGCAGCCGCGTGCCGCCGCAATGAACTGGATATTGCTCAGGCGTTTTCTGTCCTTGTGC
AGGGCAAGTTCCGTGGCAAGATCGGCCCGCACGCCGTGAGGAACGCCAGACCG

Sequence 133

CGGTGGCGGCCGAGGTACGATAATTCATGCCAATTTCTTTGGGAATACTTGTCTTGATA
TAATAGGTTACAAAGCAAAATTGAGATGATTTTTAAATGCCATGCAGTTATTTTTCT
G
AATAACATAAATTTTAAACAGAGACCTGAAAAAAACCCCAAAAGTATTAACCTTTAATA
CATAAACTCAATAGAAATAATTTAACTGCCCTTCTTCAAGAGGCAATCAGAAGGCGAG
GACTATAGTTTTCTGTGTTCTTTCCACAGGAGAGATAATTACATTTCTAGAGACCCA
T
AGAAACAATTCATAGTTTTTAATTC

Sequence 134

TNGACTCCCGCGGTGGCGGCCGCCAAGTGTGGGATTACAGGCATGAGCCACCACGACCG
GCCCTGGGATTCTATTGGATGCAGCCAATTTCTTTGTCAAGATTGGCTCCATGCTGTT
AT
TTAATCAGGTGTTTCTACTGTGTAGACAAACCTAACAGCTCTCCATCTTAAAAAGGAG
TGAGGAATTGAGCTGGACAGAGATGTGCATTCCAAATTTTCTTTCCCTTTCATAAAGA
C
TTGATCGTCTTATTTATCTGGATTGGCCATACACAGTAATCTCACTAGCTGACAGTTGC
T
TCCCGCGTACCT

Sequence 135

TTGAGCTCCCCGCGGTGGCGGCCGAGGTACCTCTCCTGCAGGGCCCTCCATTCAGGGTCT
TCCTGAAAAACCCCTGGAGGAAGCGCTCCTGTTGCAGTCGGAGTGAACACCCGCTTGT
TTAACCACCAGCAGGGGGATTCTTTCTGGAGAGTCCATGTAGTCATCATCTCTTGACC
TCTGCATTTTCCCCCAGAAAGGCGAGCATGTTACTTGTATCTTGGGATCCGAATGACAA

Table 1

ACTCCACCAGATGTAAAATCACTTTCTAAACAACTATTTGACAGACTGCTCCACAAGTCA
TCATTCTTAGCATTTCTATAGCTGAACCTCTTAAGTACCTGCC

CG

Sequence 136

AGCTNCCGCGGTGGCGGCCGAGGTACTTAAAAGTATATCANGGGCAGTTTCATGCCACGG
GAGCCAGGGAAGGCACCCAAGGAAGTGATGGAAGAGTAGAAGTTCACCAGGTGCAGCTCA
GGAAAGGGCTCAGCAAATTTCTCTGTAACAGGATGCAGACCCCGCGTCTGCCCCG

Sequence 137

GCCGAGGTACTAAATTTAGCAACTTTATTCATGAGGAACACCAGTCCAATGGTGGTGCTC
TTGTCTTCATGCTTACATGGATGAACTCTCATTTTTGTCTCCAATGGAGATGGAGAG
AT

TTTCTGAGGAGTTTCTTGCTTTGACATTCAGTGAAAATGAGAAAAATGCTGCTTACTAT
G

CTTTAGCAATAGTGCATGGAGCGGCTGCTTA^{*}CTCCCAGACTTCTTGGACTIONTTTGC
TT

TAATTTCCCCAACACTCCAGTGAAAAATGGGAAATTCTGGGCAAGAAAGATTTTGAACC
ACCCCCCATTTTAAATTTTTNACCTCAGGGGAANNAGGGACNATCCTGGNTNGGGGNCC
CNCACCGNGGGGNTCCNTTTTGGGGGAAAAAANATNTTTNTTGTGGNNCNAANAAAA
AAAAAAAAANNGGGGNTTTNTTTTCCNCCCNTTTTTTTNTNTANAAAAAAA
C

CCNCTTTTTTTNAAAAAATTTT

Sequence 138

TNCCGCGGTGGCGGCCGAGGTACTCGGGAGGCTGAGACAGGACAATTGCTTGAACCTAGG
AGGTAGAGGTTGCAGTAAGCCAAGATCGTGCTACTACACTCCAGCCTGGGTGACAGAGTA
AGACTCCATCTCAAAAAAAAAAGAAAAAATTGACTTTGGAACCTCAGATTACATATCAG
TTTGATACATGCTAAACAGAGAAATGTCTCAAAATTCAGTTACTAAAAATTACTGAT
A

TCTCCATGATTAGAACCACACTGTGGTTGTGTGTGTAGTCAAAGGAGGAGAATTTTAAT
GCTATATAAGCATAACTGATAACTGCTATTACAAATAAATATTCCACAAATTTGGAAAG
T

TATTAGAGGAAGAATTTTTTTTCTTGTAATTTCCAGGTGTTTATATTAGTTGGGCCAT
A

GTGAAAATTACATGGAGGAAAGAAAATAGGGAAAATAAGTCACAGAAAAAGAAAA

Sequence 139

TTGGAGCTCCCCGCGGTGGCGGCCGAGCCCAATTCTTGATTTCTTTCCATCCCAAACCTCT
TTAAACTCTTGACCTCTGCAATTCAAGTTGTGAACATGAAACTTGTCTATCACCAGCCT
C

TTCTCTGCATTCTCTTTCCCTCCTTGTTATGCTAAACTTGGATGGCCTCTGAAGATAC
T

GCTCTTACCCCTCTGAAGGGGGCTCCTCANGGGAAGGTACC
T

Sequence 140

TCCCCGCGGTGGCGGCCGCTGTGAAACAATGCTCATAGCTCTTGAAACGACAGCGATGTT
TCCGTAACGGCATCTTAGCACGAAAAAGTCCACGGTCTCATTCCACAGCCTGGTAGCTC
GGTACC

T

Sequence 141

TNCCGCGGTGGCGGCCGAGCCCAATTCTTGATTTCTTTCNTCCCAAACCTTTTAAACTC
TT

GACCTCTGCAATTCAAGTTGTGAACATGAAACTTGTCTATCACCAGCCCTTCTCTGCAT
TCTCTTCCCCCTTGTTATGCTAAACTTGGATGGCCTCTGAAGATACTGCTCTTCA
CC

Table 1

CCTCTGAAGGGGGCTCCTCAGGGGAAGGTACCT

Sequence 142

NGGTTGCGCTCACTGCCCCGNTTTTCCAAGTCAGGGAAAACCTTNGCNGGCCCNNTTTNG
TTTTAANANAANTGNGCCNCCCCNCGGGGGGGGGGNGNNTTTTGNATNTNTTGGGG
CCNNTTTTCCCTTTTCCNNNAAAAAAAAAAANCNCNNGGCCCCCNGGNNTTTTGGGG
GGGNGGGGGGGG

Sequence 143

NNGACCTAACCTNACATTTAAATNGCGGTGGCGGCTTAACTGGCCCGCTTTTCCAAGTCC
GGGAAAAACCTNTTCCNNGCCCAANCTTTGTANTAAANGAAATCCGGCCCAACCNCC
GGGGNGAAGGGNGGGTTTTTNGCNATTATTGGGCGNCTTTTCCCGTTTNTTGNNTNN
NNNANACCCCTTNGGCCNCGGGGGGATTGGGGGGGGGGGGGGG

Sequence 144

GAGCTCCCCGCGGTGGCGGCCGTTGCCCTTACATCTCTCATTTGGAACGTGACACGGTAT
TAAATAACGGCATATGAAAGCTTAAAGTCATCAAATACAATCACTGGGTACTTTTCGATT
ACCCAAACCAGGCATTTCTTAAACTCCCCACTTCTTTACTTCTGCGGTCTCCTTTCTT
T

TATTCCCCCGCGTACCTGCCC

G

Sequence 145

ACTCCCCGCGGTGGCGGCCGAGGTACCGAGCTCCNGGCTGTGGAATGAGACCGTGGAGCT
TTTTCGTGCTAAGATGCCGTTACGGAAACATCGCTGTCTGTTTCAAGAGCTATGAGCATTG
TTTACA

Sequence 146

CTCCCCGCGGTGGCGGCCGTTATGCTTAGCCNGTTTATTCTTTATTTTTTACTGGAG
TC

ATTGCCAGTGATGGAACGGTGTTTGCTTCTCTTTCAGTCAAGATCTGCACAAAGTATAG
CATTAGGTGGTATTTATTGTTTATATTATGAGTTCTACATTCATCTTCCAGCACTCTGA
AGTTATCAGCAAGTTCTCAGTCAGTTCAAGGCATTGGATTCTGCTTGATTCTTTTTAA
T

TCATTGTTTTTGACCCCTTTGAGAGTTTAAATAGAGAGGAGTCTGGAAGGCAGAGATCTC
CACCACCTAACCGTGAGAAATTTGGAACCTAAGGACTTGCCTGGTCCCCAAGTTAACAGG
GGATATACTTCTGCAATTTCTCTGNTCTTTCTTGCC

Sequence 147

TGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACCCAAGGTGGGCATTTTTTTAAAAA
ACCCATGGAAATAAATGCTACTTCTTGTTAGTGTTGTTTGGAAATAAACAAAGAAAATGC
AAACAAAACAAAACCATGGTCCATTCAAGCTCAAGAGTATTTAACCAATGCTCTGTTGC
CTCTTAAAGGATTGGTAGCTATTTCCCATCTACAAATACATGACAATTAAGCCCA
ATTCTTTAAACTATCTGGAATTAGGTCAAATATCTAATTTTTTTCTGATTTAATTAT
GGATTACCGTAATCCAATAGTTGGCAACATTATAAACCCCTAACTTTACCTCATTGGTT
T

GGCTATACCAAGGTCTCATGGACTCTTGGACATAACCACCATTTCTTCCNCCAACACCC
CGNGTACTTCAGAGTAAACCCGGGAGCCTTCATGATAACCATGAAGGCCCGGAAGCTT
CTGGCTTCCAAGGCTTTCTNTNGGCCTNACCTTCCGGTGGTTCCTTTCT

Sequence 148

GGGTGGCGGCCGAGGTACCTNTGTGCGCGGTGGNCGAAAAAGCACCTGGGTGGGTGCAG
ACTGCGGAGCNGGGCCCTACCGTGTGCGCAGAAAGAGGAGGCGCTGGACTTATCCTACCT
TAAGTTGAAGCAGACCAGCAATTGTTGTGACCTACAATCTCCACACCCATCTTTACTCTG
AGCCAAGGAAGTGTCTGTTCTTGCTGAGTTTNAAGGGGCCTTCAGCTNGNGGGAATCC
CNAAGA

Sequence 149

Table 1

AGCTCCCCGCGGTGGCGGCCGAGGTACCTTCCCCTGAGGAGCCCCCTTCAGAGGGGTGAA
GAGCAGTATCTTCAGAGGCCATCCAAGTTTTAGCATAACAAGGAGGGAAAGAGAATGCAG
AGAAGAGGCTGGTGATAGACAAGTTTCATGTTCACTGAATTGCAGAGGTCAAGAGT
TTAAAGAGTTTGGGATGGAAAGAAATCAAGAATTGGGCT

Sequence 150

CNCCGCGGTGGCGGCCGCTGTGAAACAATGCTCATTGCTCTTGAAACGACAGCGATGTTT
CCGTAAACGGCATCTTAGCACGAAAAAGCTCCACGGTCTCATTCCACAGCCTGGTAGCTCG
GTACCTCGGCCGCTCTAGAACTAGT

Sequence 151

CCGCGGTGGCGGCCGCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTGTTTTGTTT
T
TTTCTGTCCCCTCTGAGCCATGGAAGATACTGGAGTTAACAAAAATTTTATAAACTAAAG
AAAGCAACTTTATAATCTAAAAGAAAGCAACTTTCCCTCCTGTCTTTTGAATTCATTTC
CTGAAAGAATGGATAATGAATCAGGAGATGAGCAAAAACGTATCTTTTACAAAGCTCTAG
TCTTCCAAAAGCCTCTAAACTCAAACGAAACCTTTTAAAGTAGTTTGTAAAAGCTCA
A
GGTATGCCATTTCCAGAAAGTTGCAGATGAGCACCATTGGGCATTACCCAAATTCTGTCA
CACATTGAGCAATGAAATTCAGGGAATTGGGACAATGACCTCTTGGGCATATGAAAGAAT
TAAAAGAGGGCTAGGGCTTAGGGAGGGGGGATCTAATCGGGAGGGGATGTTCTGTCCCN
GCCCTTCCTTCTTCT

Sequence 152

TNCCGCGGTGGCGGCCGAGGTACNCCTAAAAAGTACTGCAGCAGAGAAGAAAACATTGG
ACAAAGAAGAAAGGCGACAGAAGGCTAGAGAGAGGCAGCAGAAATTGCTTGGCGAGTTTG
CTTCACGACAGAAAGGCTTTATGAAAAGTGAATGGATGTTGATTCTCCTGAGAATGATA
TTCCTATGGAGATCACACGGCAGAACACAGGTTTCCGAGGCAGTATATGACTGTGTTA
TTTGTGGACAGAGTGGCCCCCTCCTCTGAAGATCGACCTACTGGATTAGTTGTACCTGCCC
G

Sequence 153

GCGGTGGCGGCCGAGGTACACCTGCAACTGTGCGAATGGTCCTGTTGCCTCCTGCATTTT
GGCCTCTGTTCTATAAAGGAAGAGTAAAGATGGAGCTCCTCCTGCCTCCATCACGAAAGC
ACATATCATCTGTCCCTTTGGATTTACTTCCAGGACGCGTGTCTGTCCTCCAGCGTGTG
TT
GCCTTATGGTGCCGGCAGAGCCTCAGCTATCTGCCTGGGAAGTCGGATGTCCTTGGAGAG
AATTTGGAATGCAGATAATTTTCTTATTTCTTGAGAGCTTACTTTAATCAGCATGACA
C
TACCTAAACACTGAAGATGGCCTTATATTAGTAAGATTTGCACAAAATTAAGTATACCT
A
TGCAAACTATTACTTTGGTTTTTAGGAGTTTGATCAGATGAAGAAGTNATGGTATCACA
T
ATATATGTAAGAAGGCCAACCCATCATTATTTTTGNAAGTGNTTTTTATTAAAAACC

Sequence 154

CNCCGCGGTGGCGTNCGGCCCCCGCCTTTTCTGCGGCTTTCAGCTGCGCGTTTCAGGTG
TCAATGAGGTCGTGGCATCTTCGAGACCGATGGACAGGCGGATCGTCCCTGGCTGATG
CCTGCGCCCGCCAGCGCTTCGTGCTCATGCGGAAATGCTGTGGTGTGCGCCGGGTGGAT
CACCAGGCTGCGGCAATCGCCACGTTGGCCAGGTGGCTGAAGACCTTGAGGGTTTCAAT
GAACCTCTTGCCTGCTCGCGGTTGCCCTTGAGGTCAAAGCT

Sequence 155

CGCGGTGGCGGCCGCGCCGGCNGGTTATAAAAACGAACATGTATAAACGCTTACGCAAACC
CTTTTAAATGTTCTGAAGTCAGTCTTTGTAAGTGAAATCGCTGGAGACTAGAAAGTATG
A
AATGGCAGTCTACCTGGGCAACCTACAAAAATTTAGCTTGAAAAGACTTCAGTCTCCGC

Table 1

TCCCCTGTTGATCTCATGGAGTGGGGAATGGGAATTGAACCAGAACTGGAAAATTATTTA
GGAAAGTTTGTTAACTACTCTTTGTTGATCTCATGGAGTGGGGAATGGGAATTGAACCAG
AACTGGAAAATTATTTGGGAAAGTTTATTAAC

Sequence 156

CTGGCGGCCGCCGNNCTGGTNCTTNCATCTNNGGCTNCCTATANGCTNTCTTTTTTACAG
ACGGCCATGAAATGCAATCCAGCTGAAGTATTATCATCTTGTAGCATTTCAAAGGAACC
GTCGAAGTCATCCAAAGGATGGGAACCACAATGTTCTTGTGTTCCCTTGGGTTTCTTA
AT

GATTTCGAATCATCATTATTAATTATGGAATTCTCTGGTCGAAAAGTCACATTTGGTT
T

TCTCCTCAGTTTCTCACATCTTTTTCTTGCACTCTTTCTCAGCTCTTCTTCCTTGCCCT
TTTTTACTGGCCTTTCCTTGCTTACTTCAGGTGGTTCTATTTTGACCTTTAAGAAGG
T

TGAAGGGTGGTNCAAGCATCACCTTGGTTTCAATAAAATTAATGGTGTTAGGTTTCTGGT
GGCCTTNGTTTAAACGCAAATGGGGGTTTTTNANGGGGGGANAAGGTTGGGGT

Sequence 157

CCGCGGTGGCGGCCGAGAAATGTCGCCAACTGCCGTCTTCCCTCCTCGGCCGCTGCGAC
AAACACCCCAAAAATGGCGGCATGCGCCGTGCGCCTAGAATCCCCGAGTCGCCTCTCC
CCGCGTACCT

Sequence 158

CCCAGGGCCCAGCTACTCGAAGAACAGCCAATGGATTGGAACGTCCTAGGACAGATGCCA
CGGCTTTGACCCAGGCTGGGGGTGCACAGGATCTCACTGGNGNTAGTTGGTCGGATGGGA
AAGCCCCATGGGTCCACCAGGATGAGGTGTTTAACTNTATCAGGGNACCTTGCCCCGCTCT
AGAA

Sequence 159

CCCCGCGGTGGCGGCCGCCGCGGCAGGTACACAGGACCAATGCTGCCCATCCCATGGAAT
TTACAAACATTCTACAGCGCAAAAGGCTCCAGACTTTGATGTCAAGTGGATGATTCTGTGG
AGAGGCTGTATAACATGCTCGTGGAGACGGGGGAGCTGGAGAATACTTACATCATTTACA
CCGCGGACCATGGTTACCATATTGGGCAGTTTGGACTGGTCAAGGGGAAATCCATGCCAT
ATGACTTTGATATTCTGTGCCTTTTTTTATTCTGTGGTCCAAGTGTAGAACCAGGATCA
A

TAGTCCCACAGATCGTTCTCAACATTGACTTGGCCCCACGATCCTGGATATTGCTGGGC
TCGACACACCTCCTGATGTGGACGGCAAGTCTGTCCTCAAACCTCTGGACCCAGAAAAGC
CAGGTAACAGGTTTCGAACAAACAAGAAGGCC

Sequence 160

TGGCGGCCGCCCGGGCAGGTACACAGGACCAATGCTGCCCATCCACATGGAATTTACAAA
CATTCTACAGCGCAAAAGGCTCCAGACTTTGATGTCAAGTGGATGATTCTGTGGAGAGGCT
GTATAACATGCTCGTGGAGACGGGGGAGCTGGAGAATACTTACATCATTTACACCGCCGA
CCATGGTTACCATATTGGGCAGTTTGGACTGGTCAAGGGGAAATCCATGCCATATGACTT
TGATATTCTGTGCCTTTTTTTATTCTGTGGTCCAAGTGTAGAACCAGGATCAATAGTC
CC

ACAGATCGTTCTCAACATTGACTTGGCCCCACGATCCTGGATATTGCTGGGCTCGACAC
ACCTCCTGATGTGGACGGCAAGTCTGTCCTCAAACCTCTGGACCCAGAAAAGCCAGGTAA
CAGGTTTCGAACAAACAAGAAGGCCAAAA

Sequence 161

CGAGGTACCATCCTATTAATACTAATTCTGCTTCTACATACTGTAGACCTTTCTGGAT
G

ATAGAAATCAATGCAGCGGGTGGGACGAGGGCACCATTATATTGGACTGACTGATATGG
CTTCTATACCAAAGGTAAATGCTGAATGAGAAAATCCTGACTCTTGAAGTATCTATA
T

ACCAAGAAGTTGACCTCATCACTGCTTATACTCATCTTTATTCCCACTTAAACCATGAG

Table 1

G

TCCAACACAGGATATAACCCATTGGGCAGTGCATTGATGTGGGGGATGTGCAACTGANT
ATNCCGGTCACCCGCCAATCACAAGTTTGCTGGTGTTGATGCTGGAAACGGTGGCCTCCA
ACGCCGCTCCCCCTCCCGGAA

Sequence 162

GGCGGCCGAGGTACCTGGCCTGCTGGCATAGTTCTTTGACCCGTTCAATTTGGGCAAGT
GATTTGACTGTTGGATATTCTTGCTGGATTCTCTCTTACGTAGAAATTTGCCTCTT

T

CCACTAGGAATGTATCACGCCAAATTTGGCCTTCTTGTTTGTTCGAAACCTGTTACCT

G

GCTTTTCTGGGTCCAGAAGTTTGAGGACAGACTTGCCGTCACATCAGGAGGTGTGTGCA
GCCCAGCAATATCCAGGATCGTGGGGGCCAAGTCAATGTTGAGAACGATCTGTGGGACTA
TTGATCCTGGTTCTACACTTGACCACGAATAAAAAAGGCACACGAATATCAAAGTCAT
ATGGCATGGATTTCCCTTGACCAGTCCAACTGCCCAATATGGTAACCATGGTCGGCGG
TGTA

Sequence 163

GGGGCCNCGCTCCGGGTGGCTCTATGTAGTTCTAATTTGCATTTCTCTAATGACTAACG
ATGTTAAACATATTTTATGTAATTTGTTTCACTGTTGATATGTCTATTCAATTCC
TTTACCATTTTATGGAGCTGTTTTTATTATTGAGTTGTAGGATTTCTTATATATG
CTGCATACCAGGCCTTTGTTATATACATGCTTGAATGTACATTGTCTTAAATCTGT

G

GCTTGCCTGTTCAATTCATTAGTGGTGTTTGTAAAGCAGTTTTTAATTTGATGAAGT

G

TAACCTATTCAATTTTATTATGGTTATTGCTTTATGTTTCAGGTCCCAAATTTGCCTT
CTCACAATCACAACATTATCCTATGTTTCCCTTCAAAATTATATGGTTTTATGATT
TTCAATCTCAAAATATTCTCTAATTTTTTGTCTGATTTATTCTAAAGAAATTTGAGGGA
TTTGCTATAATGG

Sequence 164

CCCCGCGGTGGCGGCCGCCGGGGCAGGTTATTTAATTTCTTAGTGTCTCAATTTCTCC
TCTATAAACAGAGATAATAGTATTTAGCCAGAGGGTTGTGGTGAAGTGTGAATCATTT
CTCCATGTAAACACATAGGACAGGCTGGGCATGGTGGTGGGCACCTGTAATCCCAGTTA
CTTGAGAGGCTGAGACAGGAGAATCGTTGAACCCGGGAGACGGAGGTTGCAGTGAGCCC
AGATAGTGCCACTGCACTCCAGCCTGAGTGACAAGAGTGAGAGTCCATCTCAAAAAAAA
AAAAAAAAAAAAAAGTACCT

Sequence 165

NCCTGGCATCAGCNATTAGNAATCAACCTGTTAATCCAAGGTCTTTAGAAAACTTGAAA
TTATTCCTGCAAGCCAATTTGTCCACGTGTTGAGATCATTGCTACAATGAAAAAGAAGG
GTGAGGAAAGAAGATGTCTGAATCCAAGAATCCGAAGGGCCGTCAAGAAATTTTACCTGA
AAGGCAGGTTAGGCAAGGGAAAAGGGGTCTAAAAAGATCTCCCTTAAAAACCAGGAGGGG
GGAAGCCAAAAATCCGATGCCAAGTGCTTTCCCAAAGGGGATTGGGGACCACCACCAAGA
GGCCTGGCCCTTCTTCCCATCACTTTCCCTTACCATTGGGGAGGTAATTATTGTCAA
GGCCATTAAATTTGGTTTCTTAAAGTTTTTGGCAGGTTTACCGCCTTAAAAAGGGTG

GA

CCCAAATGGATTGGGTCCACCCAAAATCNAGGCTTGCTTACTTACTTCCCTGGTAAGGGA

A

Sequence 166

GTGGCGNCCGTNCGGNCAGGTACTTGCTCAGCCTTTCCAGGCCCTNTGATGAGCTCTCT
AATCAGCAGGACCAAGGTGTGAAGTGGGAATGAACATGGATCCATCCCATTGGATGGAGA
AGAAAGGTGGACAGCCTGTTCTCTCTCATGTCAGCCTAGGGCTGGGAACAGTTTGTGAG
GACTTATCTGTTGTACCT

Table 1

Sequence 167

GCNNGGCCGCCCCGGGCAGGTACGCGGGAATGGGCACNNTGNAGCGCAAGTAGGTCTACAAG
ACGCTACTTCCCCATCATAGAAGAGCTTATCACCTTTCATGATCACGCCCTNNGGNATC
ATTNTCCTTATCTGCTTCCTAGTCCTGGTATGCCCTTTTCTNAACCACTCACAAACCA
A
AAACTTAACTAAATAACTTAACAATCCTNAGAACGCCTCAAGGNAAANTAAGAAAACCCG
TCNTGAAACTTATTCTGCCCCGCCCATCATCCCTTAGNTCCCTCAATTCTGGNCCCT
CN
CCAANCCCCCTACCGCCAATCCCTTTTTACAATAAAACAGGACCGAAGGGTCCAAACNGAA
TCCCTCCCCNTTACCCATTCAAAAAATCAAAATTNNGGCCACCCAAATTGGANNACCTT
GAAACCCCTAACCGAAGTTACCTTCGGGCCCGCTTCTTAAGAACTAAGGNGGGAATCC
CCCCNNGGGGCTGGNAANGGAAATTCGGATAATCAAAGCCTTAATCCGAATANCCCG
GTCCGAACCCTTCGGAGGGGGGGGGGGCCCCCGGGTACCCCCANGCTTTTGGGTTTC
CTTTTA

A

Sequence 168

ATNTTCAGGAGACGCTCNGTAGCCCTCGCGCTNTATCCTNCGGNACAGTTCTGCGGAAGA
AGTGGCTCACGCCCTCCAGAGCCACATCATCGCGGNCGAAAGNGAAGCCCAGAGAGAGGT
AGGTGTAGGAGGCCTGCAGGTACCTCGGCCGCTCTAAGAACAANGNGGATCCCCCGGGG
TGCAAGGGAATTCCTTANCAAAGCANTANTNAAACCCGTCCGNCCNNNCAGGGGGGGG
CCCCGNTACCCNAANCTTTGNNNCCNTNATAGAGAAGGNGAAAAATNANGCCCNCC
TNGGGCAGNAAAAAATGGGGACAATAAAGCTNTTNNNCNNGGGGGNTNAAAAANTGT
TAAATCCCCCNACCANNAATTTTCNCNAAAAAATAAAAAANCNCCGNGGANNGAN
AAAAAANNGGNATAAAACACCCCNNGGGGNGGGTCCCNCAAAGNNGGGGGGGGACCN
CCNCCNAACAATTAATGTGGGGNGGGNGGANANANAATNGCCCTNNTTTTNTANNNG
ANAAAAANNCTTGGNGCNGNCCCNACTTCTANNTAAAAAANACCCCCCNCCCN
CCCGGGGNNAGNGNGNNGNTTNACTTTANNNGGGCNANNTTTTCCNCTTATNNA
AAAAAATAACNNGGCACNNGGGAATTTNNGGGGGGGGGG

Sequence 169

TTTTGAAGCCNCTTNCCGCGGNGGCGGCCGCCCGGGCAGGTACTTCCACTATTATTGAA
TGATTCTGTATTATAATTGTATTTGATTGCCTATCTCCCTCACTGCATTATACAT
TTTCATGGGTGAGCCAATGTCTTTTCACTCTATTTCACTGCCCTGCACATTTCTGGC
A
CATAGTAAGCATCCCATGAGTATCTGATGAATAAATGATTTCCAAATTCAGGTTCACT
A
TCCTTAATCTGAAAATACAAATCCGAAATGCCATAAAATCAAAGCTTTTTGAGGACTG
ACCTCGTGCTCAAAGGAAATGCTCATTGGAGCATTTTGGACTTCAGATTTTCAGATTAGG
GATATTCAACCCGTAAGAATAGTGCCAATATTCAAAAATCAAAGCTGAAATCCAA
AACACTTCTGGTCCCAGGTATTTGGATAAGGGATACTCAACCTGTACCGTAAATACAT
GCATACTTCGATAGCACATGTGAAGGTATCTCTCTAAATTGACCTCATTGGTTTCGT
T
CTCAAGCAAACCTGACCTGGGGCCACTCAACATGGCTTTTATCGNGCCTGATGTTAATGCA
TGTCTCTTTTACAATA

Sequence 170

AAGTCTACATTTTATGTAGTGGTTAATGTTTGCTGTTTCATTAGGATGGTTTCACAGTTA
C
CATACAAATGTAGAAGCAACAGGTCCAAAAAGTAGGGCATGATTTTCTCCATGTAATCCA
GGGAGAAAACAAGCCATGACCATTGTTGGTTGGGAGACTGAAGGTGATTGAAGGTTCCAC
ATCATCTCACCAACTTTTGGGCCATAATCACCCAACCTTTGGTGGAGCCTGAAAAA
ATCTGGGCAGAATGTAGGACTTCTTTATTTGTTTAAAGGGGTAAACACAGAGTGCCCTTA
TGAAGGAGTTGGAGATCCTGCAAGGAAGAGAAGGAGTGAAGGAGAGATCAAGAGAGAGAA

Table 1

ACAATGAGGAACATTTTCATTTGACCCAACATCCTTTAGGAGCATAAATGTTGACACTAAG
TTATCCCTTTTGTGCTAAAATGGACAGTATTGGCAAATGATCCACAACCTTCTATTCT
C
TGGCTCTATATTGCTTTGGAAACACTT

Sequence 171

GGCGGCCGCCGGAGCGGCGCGGAGCATGATGGAAGTCGTAGTAGGAAATGGCGTCGTGGC
ATTGAGGGGGCATCCCTCCTAGAACCTCCAGGAAAAGCTCGCGGAAGACGAGGTTCTGCG
GAGAGAGAGGCTCCAAGCAGTCTGGGAAGTGTAGTCCAGTTGGCTTAGCAGTAGTTTCGT
TGGGGGGGAGCCCGAGGTTCCGGGAAGGGGCTAGGCCGGCTTGAAAAGAGATTATGACTG
TACCTCGGCCGTCGAGCGGCCGCCGGGCGAGGTACAACTTTTATACAACCTCAGGAGATTA
AAAAAAATCTCCACAAGAAGAAGCAACTCANCAGGCCCTGGCATTAAACATTTCCAG
AATAAACAGATATGCATTGCATTAAAGGTAATTTTCAAATATTTAAGTTACACCAAGATT
TCCCTCCAATATGTGCCTTTCTCAAACCAATGCAACTAATTCATTGCTAATACTGGGG
CA
TGAATTTTTTGGCAAATGTTTATGGTTTTACTTTCTTCATTAATCAAAAAANT

Sequence 172

CGGGTACANATTTAAGGTAGATGGACTCAGGGTAAGGATAGCTACAGCTGTGTGGGGCTG
AAGGTCTGTGGCACTGAGCTACTGGGGAAGGAGGGCTCTGTTTTCATNGTGACACACTGA
GTTAATAAAGCACTTACTGAGGGAGCCAGAGCCCAAACCTCTAAATGTGCTGTAGAAAAAG
GGCCAAGTCATTGACTGCACCACTCCTTCAGCCAGAGGTAGAAAGGATTTACTCTTCAGC
CATCTGGTAGAGCCCCAAGAACAAGTTACATGTGGACAAAGGGAGGGAGAGGTATCATGG
TGATTAATAAATNCAAACAAAGCTGAATGATAAGNACCCCAGGATGGAATACAGTCTGAG
AAAGGCCTGGGCAAAG

Sequence 173

GGGGCCGGGCCCCCGTAGGGGTTACCCNCCGNGGGTTATTAAGGGGTTGGNAAAAAAA
AAACCACCTGGCNCANTTTCCAACCCAAANGGTNCAAANGGGGAAACCCCCCAANGGGGG
CCCAGGCCTTGGGGAAAAGTTGTTTGGGGNAGGCCACCAAACCAATTGGNCTTGGTNNG
GGAGGCCAACCACCAATGGNCCTTGTTGNGTAAGAAATNTGGGCNAGGGNGGTTGGTTC
CTTGNAAGGGTATTTGGGTGGTTNCGTAAANTTTGGGAAAAAGGAAATTTTTTAAGG
GTTATTTGTAAAGAAAGCCAAAGGGTTTTGGAAAAAAATGGGGAATTTGGGAAGAACCTG
GCCAATTGGGGTTGGGGCCCATTAANAATTTGGGGAAGGNAAAAAATTTGGCCCCCTTG
GGTNAAGNCCANTCCTTAAGGTTCCCTTAACCTTTTGGAAAANGGGGAAAAGGTTGGGGGA
AGGNAACCCANTTAAAGGGGGNANGGGANGGACCCAAAAAACCAGGGGGGTNT
TTTGGTTNGGNCCCCCAATTAAGGGTTAATTTTTTTTTTTTTTCCAAAAAAG
G

GAACCCANCCCCCAAAAAGGGAAATTGGGTTGGGGGTTNAAAAAATTTGGGGAAAAA
AAAAATTTTAANTTTTAAAGGGTTTTTCCAAACCTTTTTTCCCCCTTGGCCTTGGG
C

CCCAANTTGGGAAAAAANCCTTTTTTGGGCCCNTTTTTAAAAAGGNAAAAAGGGGG
TNGGGCCCTTGGGGGNAANTTTTNCACCAAAAAGGGGGTTTTTTTGGGTTNAAAAA
AAGGGGGGNCCAANTTTCNTTCCGGGGTTTAAAAAAGGGAACCCTTGGGCTTTTTT
TT

Sequence 174

GGCGAGCGGCCGCCGGGCGAGGTACCCTAGGGTGTGTTTAAAGGACTTGATAACCAGCTT
GAAGAGGTTCTACTGACCAGAAATGGAATGAAATTTAAGCATCAATAAGGGTAATAACT
GCAAGAGACTGACATCCACTATGGTTTAAATCCATGAGGTACCAATGATACTTAATTTT
T
CATTATTCTGAAAACCAGTAAATAAAGGCTAAGATTCAACAAGCATTTATCCAGCCTTTC
CTCAATGAAATATATCNTAAGAGAACCGAATAGTTAACATAGAGACATGGCCGGGCAAGG
TGGCTCTCGCCTGTAATCCCAACACTTTGGGAGGCCCGAGGTGGGAAGATTGCTTGAGCC

Table 1

CAAGAGTTCTAGACCAGNCTGGACAACATGGTGAAACCCTGTGCCTACAAAAAAAAAAAA
AACAAAAAAAAAGGTCCCC

Sequence 175

CAGGACCAAAACCTGGGGATTAAGCTAAGAAGTCTGGTGGAGAGACTCTGTGGACGTAA
GAAGGGAATGAACACAGAGAACTTTTCAGCCAGATTCCTGATNGTCACCTGAACAAGAAA
AGTCAAACTGGAGTGAAACCATGCAAATGCAGCGTGTGTGGGAAAGTCTTCCTCCCGTCA
TTCATTCCTGGACAGGCACATGAGAGCTTCATGCTGGACACAAACCATCTGAGTGTGGT
GGGGAATGGANAGAGGACNCCCCCGNAAACAGAAACCAACCATGGGGAAAAGCCTTCAT
TCCCCCAGTAGTNGGTGCACCGGCTCACCAGTTAACNACCAACTTNGAAAGGAGACCTT
TATGAATTGCAAGGGTGGTGCGGGGAAAGCCCTTTAAATTCTCCA

Sequence 176

NCNNGNCAGGACGCGGGGGCCGNGAAGAGCTTTGCATTGTGGGAAGTCTTTCTTTCTCG
TTCCCCGGCCATCTTAGCGGCTGCTGTTGTTGGGGGCGTCCCAGCTCCTAAGGCAGGA
AGATGGCGGCCGGANAGAAGACNAAAAAGTCNCTCGGAGTCGATCAACTCTAGGCTCCAA
CTCGNNATGAAAAGTGGGAAGTNCCT

Sequence 177

CCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTATGAATNATTNATTTCT
T
TNTCAGAAAAGGATGCGCCTCCACTTAGCAAGGCTGGGCAGGATGTGGTCTCTGCATCTC
CCACAGACAGGGGTGGTTCTAGA

Sequence 178

GGTGGCGGCCCGCCCGGCAGGTACCAAACCATTTTCACTAGTTTCAGGATAGGAATATTCA
TCAGATTGTCTCTGTAAAAGTGAATCACAAAAATTCACCTGTGTAGGTGTGGGACTGGA
CAGCTGAGTGACAGGGCCCTGGGAAGAACAGAAACCACTTTTCTCTTTCTCTGAAATA
TCAGAAGTTAAAAATCTACTCTGAGTTATATGTGCATCAATTTTAGACATATTGCTGAT
T
TTATTATGAAAATGAAGTGCTAAAGACAAAGGATATTTCCATTCTCTGGACAGGCAGCC
ACAGACCAGCACTGCTTGACCCATGTGTATACACATGTGTGCTTTGTACCT

Sequence 179

GGTACTCACAGTCACGCAAATTCACAGTCTGCGTGCACGGCTCTCCATTCTTCTTCTGG
CTTTACAGGTTCCCAGGTCAAGAGCTTCACCCATAATTAAGACCTTCTGAGGATGATCGA
TAGATAAACACACCTCCTCTGAACCATCCTTGGGCTTCATGGGGTTGGCATTGAGGATCC
CTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAACCTCTCCAAATAAGAACA
AGGACACACATTGTGTCAGGTCACGAAGATCATTAGTTTCCATATGCTGAAGGTTTTTC
CACTATTCACACTCTGTGGCGTAACCTTCTTCAATATAACCCCAAATGTCACCCAATCT
A
TTTCTTCCAGCTTCTCTCTGGCCATCTTTCTTGATCTGAGACAGTCTGATCAGTTTTTC
G
GCCGCTCTAGAACTAG

Sequence 180

GGCGGCCGAAAACCTGATCAGACTGTCTCAGATCAAGGAAAAGATGGCCAGAGAGAAGCTG
GAAGAAATACGATTGGGTGACATTTGGGGTTATATTGAAGAAGGTTACGCCACAGAGTGT
GAATAGTGGA AAAACCTTCAGCATATGGAACTGAATGATCTTCGTGACCTGACACAATG
TGTGTCCTTGTTCTTATTTGGAGAAGTTACAAAAGCGCTCTGGAAGACGGAGCAGGGGAC
TGTGCTAGGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTTCAGAGGAGGTGTG
TTTATCTATCGATCATCCTCAGAAGGTCTTAATTATGGGTGAAGCTCTTGACCTGGGAAC
CTGTAAAGCCAAGAAGAAGAAT

Sequence 181

GTGGCGGCCGAGGTACTACAGTCACGCTCCTCTGAACCATCCTTGGGCTTCATGGGGTTG
GCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAACCTCT

Table 1

C
CCCAAATGTCACCCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGATCTG
A
GACAGTCTGATCAGTTTTCGGCCGCTCTAGAACTAGGTGGATCCCCC
Sequence 187
GGCGGCCGCCCGGGCAGGTACCAGAGATTCCAGAGAGTGGTCTTTGGAATTTCCCAACTC
CTTTGCTTCAGTGCCCTGATCTCTGAAC TAACAAACCAGAAAGAAGTGGCAGCATGGACT
TATCATTACAGCACAAAAGCATACTCATGGAATATTTCCCGTAAATCTGCAGAATCGCTA
CACAGACTTAGTGGCCATCCAGAATAAAAATGAAATTGATTACCTCAATAAGGTCCTACC
CTACTACAGCTCCTACTACTGGATTGGGATCCGAAAGAACAATAAGACATGGACATGGGT
GGGAACCAAAAAGGCTCTCACCACGAGGCTGAGAACTGGGCTGATAATGAACCTAAC
Sequence 188
TTTGAANCCCACTTNC CGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTT
TT
TTTTGTAAC TACAGGTGTCAGATGCATCACAAAAGCAGAAGTGCCCTTTCAGCTCTTCTC
TGTGCCATTCTTGTCAATTTTCATGCTGCCTACAGCAACAGCATAATACTGCAAACAGCC
ATGATGTCACTCGAAGTGCTCTGTGATTGACAGAGAGGGACAGTCGTAGTCAGAGGTGGC
TCCTCAGAGAATTCAGAACTCACTCGCTGTCTCCAGGGGCTCATCCCTTGATTGAGGG
AGGGATGAAATATTCTCTGCATGAGAGAGCAGGGATGGGAAGTGATATAGGTATGTAAGG
ATGGTCAAGT TACTCTAAATGTAGTTAGACAGGACAGCCAGAATACCCGAGGTCTTGTT
AGGTCCTCTGTAACAAGCCGTAGAGGCCAGAAATGTGGTGACAGCGAGACACATTTCTT
AACTCTTACACTTGTGAAATGAGTAGAAGGNGACATTTGGTTTGGAAATCCCTCCCC
A
Sequence 189
CCGCGGTGGCGGCCCGCCCGGGCAGGTACGCGGGGAAGGAAAGCAGCTGCAAAC TCCCA
TCTGCAGTGTTTGTGTCTCGGCTCCGGCCATCACTGCCACGATTACCCCTGGATGAAT
TCCTCAGTGGAATATCAACAAGACTCAGCCACCTGCACCCAGGTGATTAAAAAGCTTT
ATTGCTCACACAAAGCCTGTTTGGTGGTCTCTTCACATGGACGCGCGGACATTTGGTGC
CCTGACTTGGATCAGGGGACCTCCCTTGGGAGATCAATCCCTGTCTCCTGCTCTTGC
TCCGTGAGAAAAGATCCACCTACGACCTCTGGTCCTCAGACCAACCAGCCCAAGGAACATC
TCACCAATTTTTAATCAGGAATATTCTGTGAAAAGACTAAGATATCAAGAGAAATTAT
T
AGTGCACATTATTAGAAGAGAGCTTCAGATGAAAATAAAGATCAAGAAAAAGACTCTTGC
TTTGAGAAAAGACACAAAGAAATCACATCATTCTTATTGGGATTACTGGGCTAGCCATATG
CCAGAAAAATGAAACTGGTCCCTTCTTACCCATATACCAAAAGCNGCCCAN GATGGNTT
ACTTNAATGTNAAANCCAAACT
Sequence 190
CGGCCGCCCGGGCAGGTACCATCGCCGTCCCATTTGCTCACAGGGACTGGGAAGGCGATGCC
TGGCGGGAGCTGCTGGTGGAGAGACTCGGGATGACTCCTGCTCAGATTCAGGCCTTGCTC
AGGAAAGGGGAAAAGTTTGGTCGAGGAGTGATAGCGGGACTCGTTGACATTGGGGAAACT
TTGCAATGCCCCGAAGACTTAACTCCCGATGAGGTTGTGGAAGTAGAAAATCAAGCTGTA
CCCTGATGCTACAGACGAGGACATCACCTCACACATGGAAGCGAGGAGTTGAATGGTGC
ATACAAGGCCATCCCCGTTGCCAGGACCTGAACGCGCCTTCTGATTGGGACAGCCGTGG
GAAGGACAGTTATGAAACGAGTCAGCTGGATGACCAGAGTGCTGAAACCCACAGCCACAA
GCAGTCCAGATTATATAAGCGGAAAGCCATGATGAGAGCAATGAGCATTCCCCATGTGAT
TGATAGTCAGGAACTTTCC
Sequence 191
CGCCGGGCAGGTACTCCCTGGAAAGTCCAGCTGAGAAAGCGATCCTGCCCTCTGCTCCTC
CCAGGGTTACCCTCCTGTAAGTCTTCTGCTTAGTGTTCAGAATTGGGGGATGCTGGGACT
GGGCAAGGACTTGTAGGCAACACCCCATAGCCTGCTCATGCCTGTTGGGTTGCCTATGGA

Table 1

TCATTCCCTGCTGGGCTCACTCACCGGCTTCGTATAAGGTCCTTTTTGAGGTTTATTA
TT
TCCTTGTCATATACTTGATGCTCTTCATTGGCTTGTCTGGGACCTGCCTTAGGTTCT
CC
GAGGCATAAAAGGGCCGGACAGCCCCGAGTTGGGGGAACTCTGAAGCTTCTTGGTGGCT
GGAACCTTGGTCATCTTAAAAATCCTTCAGGTTTTAGCCTGTGCCCCAAGACAAGGATT
TTCCAGAATCTTCTACTTCAAGTAGTTACTGGTATGAAGAAGTTTCGGCA
Sequence 192
CTCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTC
T
GGCTTGAAATACAGCTGAAATAACTGAATTTTCTACTTGAAACGTGTGTGCCTCTCCACT
GNGGGGCCAAGGCCCTGGAATGTAAAGGGCCAATCTTTGTTACAGAGGGGTTCAATGCA
GTGAAGGGCGGGTTCTGCAAAGACAAACAGGTCTCACAGATAGTTGCCCCCGGTACCT
Sequence 193
NGGCGGCCGAGGTACGCGGGGGGCTGNAGTAGGCTTCGTCTTCGGNTTTTCTCTTCCTTC
GCTAACGCCTCCCGGCTCTCGTCAGCCTCCCGCCGGC
Sequence 194
CGGCCGCAGCGGCAGCTACAACAACCGCGTCGCTCTCCGCTCAATTTCCAAGAGCCAGCT
TTGAAGCCAAGTGCCCCCGGTACCT
Sequence 195
CTTCCCGCGGTGGCGGCCGGTGTGCTGTGCTCAGCTGCCTTCCAAAGGAGGAACAGATCG
GCAAGTGCTCGACGCGTGGCCCGAAAATGCTGCCGAAGAAAGAAATAAAACCCTGAAAC
ATGACGAGAGTGTTGTAAAGTGTGGAAATGCCTTCTTAAAGTTTATAAAAGTAAATCAA
ATACATTTTTTTTCAAAAAAAAAAAAAAAAAAAAAAGTACCT
Sequence 196
CGGTGGCGGCCGAGGTACTTTGAGCTCATAAGCTGGTATAAAATATCAAACATTTTGACT
GTTTAAACAACCAAGATATGTTTTGCAAAATTACAAAACATTATACAGGTGACTTAATT
AATATCTACTCCAATTATACACAACACATCATGCTGAAGATTTAGATTTATTTGAAAAA
CTTAGTCTAATTTATATTAGTGCAAAAAATCACATTCAATAAACCACAATTGTAGAAG
A
GACAGATAAGTGTGTTTGTACATTTTCACACAAATATAATTTGATATTTAATTAAGGG
A
TGATGAATCACAATCACCATGGTCGCCGCTGAGCGCCAACCCCTACCCCGTCGCCTCAT
CGGATCCCCCGCGTACCTCGGCCGCTCTAGAACTAGTG
Sequence 197
NCGAGGTACCTGCCTNACAGNGCAGGGCGGTATGCCGCCAAACGCTTCCGCAAAGCTCAG
TGTCCTTGTGGAGCGCCTCACTAACTCCATGATGATGCA
Sequence 198
TTGCTCAGCCTTTCCAGGCCCCCTCTGATGAGCTCTCTAATCAGCAGGACCAAGGTGTGAA
TGTGGGAATGAACATGGATCCATCCCATTGGATGGAGAAGAAAGGTGGACAGCCTGTTTCG
TCTCTCATGTCAGCCTAGGGCTGGGAACAGTTTGTGAGGACTTATCTGTTGTACCT
Sequence 199
GGACTTGCTCAGCCTTTCCAGGCCCCCTCTGATGAGCTCTCTAATCAGCAGGACCAAGGTG
TGAAGTGGGAATGAACATGGATCCATCCCATTGGATGGAGAAGAAAGGTGGACAGCCTGT
TCGTCTCATGTCAGCCTAGGGCTGGGAACAGTTTGTGAGGACTTATCTGTTGTACC
T
Sequence 200
GANGAGAAAGCTGGAAGAAATAGATTGGGTGACATTTGGGGTTATATTGAAGAAGGTTAC
GCCACAGAGTGTGAATAGTGGAACCTTCAGCATATGGAACTGAATGATCTTCGTGA
CCTGACACAATGTGTGTCCTTGTTCTTATTGGAGAAGTTCACAAAGCGCTCTGGAAGAC

Table 1

GGAGCAGGGGACTGTCGTAGGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTC
AGAGGAGCGTGACTGTGAGTACCT

Sequence 201

GCCGAGGTACTCGGGCAAAGAGGGTGACANGTTCAAGCTCAACAAGTCAGAACTAAAGGA
GCTGCTGACCCGGGAGCTGCCAGCTTCTTGGGGAAAAGGACAGATGAAGCTGCTTTCCA
NAANCTGATGAGCAACTTGGACAGCAACAGGGACAACGAAGGTGGACTTTCCAAGAAGTA
CCTGCCCGGGCGGCCCGCTCTAGAAGTAGT

Sequence 202

TGGGGCACAGAGAGGGTTTCAGAGGATCCTTGNGAAACACTAGTTAAAAGATGACCGAGT
GGGGAGAAGTGCGAGGAAAGAAGGAAATTAGTCTGACTGGCTTTCTGTCTGCACCATTG
ATTCAATGGAGACTGGGCGGGAGGAAATGGAAGACTAGGGTTGGAGATGGGATGGGTGGG
GCAAGGGATGAAAAGGAAAAGGCAGACAATAATGCGTTCCATTATAACAAGTAATATA
TATCAAAGCACTTTAAAGGAGATTANAAGGACCCAATCAGGAATANATTTGGGCCAACCT
TTANATTCTTTAGGGAAGGATTCAAAAGTTCCTCCAAAACCCTAATTTTGGATGGTT

T

TATTNACTAAAAAAGCCAAAAGACCAAGTTNTGGGTACCCTGCCCCGGGGCCGGCCCCGCC
TCTTAAGAACCTAGGTNGGGATCCCCCGGGGGCCTGCAAGGGAATTTCCGATATTCAA
GCCTTTATCGGNTACCCGGTCCGACCCTNCGAGGGGGGGGGCCCCGGGTACCC

C

Sequence 203

GCGGCCCGCCGGGCAGGTACGCGGGGAAGTCTNTCCTTTCTCGTTCCCCGGCCATCTTAG
CGGCTGCTGTTGGTTGGGGGCCGTCCCGCTCCTAAGGCAGGAAGATGGTGGCCGCAAAGA
AGACGAAAAAGTCGCTGGAGTCGATCAACTCTAGGCTCCAACCTCGTTATGAAAAGTGGA
AGTACC

T

Sequence 204

CTCCCCGCGGTGGCGGCCGAAAAGTATCAGACTGTCTCAGATCAAGGAAAAGATGGCCA
GAGAGAAGCTGGAAGAAATAGATTGGGTGACATTTGGGGTTATATTGAAGAAGGTTACGC
CACAGAGTGTGAATAGTGAAAAACCTTCAGCATATGGAACTGAATGATCTTCGTGACC
TGACACAATGTGTCTTGTCTTATTGGAGAAGTTCACAAAGCGCTCTGGAAGACGG
AGCAGGGGACTGTCTAGGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTCAG
AGGAGGTGTGTTTATCTATCGATCATCCTCAGAAGGTCTTAATTATGGGTGAAGCTCTTG
ACCTGGGAACCTGTAAAGCCAAGAAGAAGTGGAGAGCCGTGCACGCAGACTGTGAA

Sequence 205

CNCCGCGGTGGCGGCCGAAAAGTATCAGACTGTCTCAGATCAAGGAAAAGATGGCCAGA
GAGAAGCTGGAAGAAATAGATTGGGTGACATTTGGGGTTATATTGAAGAAGGTTACGCCA
CAGAGTGTGAATAGTGAAAAACCTTCAGCATATGGAACTGAATGATCTTCGTGACCTG
ACACAATGTGTCTTGTCTTATTGGAGAAGTTCACAAAGCGCTCTGGAAGACGGAG
CAGGGGACTGTCTAGGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTCAGAG
GAGGTGTGTTTATCTATCGATCATCCTCAGAAGGTCTTAATTATGGGTGAAGCTCTTGAC
CTGGGAACCTGTAAAGCCAAGAAGAAGTGGAGAGCCGTGCACGCAGACTGTGAATTTG
CGTGAAGTGTGAGTACCT

Sequence 206

TCNCCGCGGTGGCGGCCGAGGTACTCACAGTCACGCTCCTCTGAACCATCCTTGGGCTTC
ATGGGGTTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCAGAGCGCTTGG
TGAAGTCTCCAAATAAGAACAAGGACACACATTGTGTGAGGTACGAAGATCATTAGT
TTCCATATGCTGAAGGTTTTTCCACTATTCACTCTGTGGCGTAACCTTCTTCAATAT

A

ACCCCAAATGTCACCCAATCTATTTCTCCAGCTTCTCTCTGGCCATCTTTCTTCTGAT
C

Table 1

TGAGACAGTCTGATCAGTTTT

Sequence 207

TCCCGCGGTGGCGGCCGCCGGGCAGGTACATGGTTCTTCTCAGAAAGTGGTTCTTCCT
TAATGTGTTTTCTTTTACCCCTTTTCTTCTTCTTCTCACAGATGNGGCTTCNTCTTCTG
CCACTTTTTCTTCTTCTTCTTCTCAACTGAATAGGGTAAGTGTAAGGCACAACAAAT
T

AACACTGTATCAGATCTCATTCTTCCAAAAACGTTTGAGTCCTAGTTTTTTCTGTCA
T

TCTCATCAACTACCCAATGTTTGTTTTGTTTATTTTATAATTGGGAAGGTTCTCCAAGG
C

CTACCACTAACTTTAACGAATGATATAGATAGAGCTCAGAGCAATCTTCTCAGCATCATG
AAGTCATGTATAAAAATCAGGATTAAACAAAGGTCATCTGATCTCCAATCATTATTGGG
AAGGAAAGTCAATTATATTANGAAATGGTTAAGAGCTTGCACTCTGAAGTCAGACGGCCT
GGGTTTAATCTACCTGCTGCACCCTGAAAAATTGGTATTTACCCCT

Sequence 208

CGCGGTGGCGGCCGCCGGGCCGGTACATGGTTCTTCTCAGAAAGTGGTTCTTCTTAA
TGTGTTTTCTTTTACCCCTTTTCTTCTTCTTCTCACAGATGTTTCTTCTTCTGCCA
CTTTTCTTCTTCTTCTTCTTCAACTGAATAGGGTNAGTGTAAGGCACAACAAATTAA
C

ACTGTATCAGATCTCATTCTTCCAAAAACGTTTGAGTCCTAGTTTTTTCTGTCACTCT
CATCAACTACCCAATGTTTGTTTTGTTTATTTTATAATTGGGAAGGTTCTCCAAGGCCT
A

CCACTAACTTTAACGAATGATATAGATAGAGCTCAGAGCAATCTTCTCAGCATCATGAAG
TCATGTATAAAAATCAGGATTAAACAAAGGTCATCTGATCTCCAATCATTATTGGGAAG
AAAGTCAATTATATTAGAAATGGTTAAGAGCTTGCACTCTGAAGTCAGACGGCCTGGGTT
TAATCTACCTGCTGCAACCCTGAAAAATTGTATTTACCCCTGGTGAAGCTCCTATCTAT
A

AAACTTAAGAATGTCTTATCTTACTGGACTGGTACTGGATTAAAAAGA

Sequence 209

CACCGCGGCGGCCGNCGAGGTACACGACATAGGCACATGTGCAACACAAAGAAGGTGGG
CATGCTGCTTCTTCTNTCTGCCCTAGNCCAGGCTCCTTTGCTTCACGNAAGATNNACA
CTTTCCCATTCCTCTGAAGTTGCTGGAAGGACATTTCCAGGAAGAAACAATTCCTCACT
GCCTATAAACTGTAGTCCCAATGTNGGGATAGTCAANNGAACATGAGAATCANAACCAAT
CTGGGCAAATGGGGNATGGCAAGTAATGGGNGAACACGCACTAACAGGNACAGTATGCC
AACCT

Sequence 210

GGTGGCGGCCCGAGGTA CTACAGTCACGCTCCTCTGAACCATCCTTGGGCTTCATGGGG
TTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGCTTCCAGAGCGC NNTGTGAACT
TCTCCAAATAAGAACAAAGGACACACATTGTGTCAGGTCACGAAGATCATTAGTTTTCCAT
ATGCTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTCAATATAACCCC
A

AATGTCACCCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTNC TTTGATCTGAG
A

CAAGTCTGATCAAGTTTTCGG
C

Sequence 211

GCGGTGGCGGCCCGAGGTA CTACAGTCACGCTCCTCTGAACCATCCTTGGGCTTCATGG
GGTTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGCTTCCAGAGCGCTTTGTGAA
CTTCTCCAAATAAGAACAAAGGACACACATTGTGTCAGGTCACGAAGATCATTAGTTTTCC
ATATGCTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTCAATATAACC
C

Table 1

CAAATGTCACCCAATCTATTTCTCCAGCTTCTCTCTGGCCATCTTTTCCTTGATCTGA
G

ACAAGTCTGATCAGTTTT

Sequence 212

GGNGGCGGCCGCCGGGCAGGTACTTTTNAATTTTTTTTTTCTGNAGAGACGAGGTCT
TTCTATGCTGTTCAAGCTGAACCTCATGGGTTTATTGGGGATGGCTAANGGATGACATTG
GCTGGTGGTCCCTGATACCAGATAAGCCCTCAGTGTGAAGCAGCTCTTATTTTTCTT
GT

CTTGAGATTGCTCTTGGAATGGAATAGGCTTTTTGAAGGTGTCGACCCTTTTTGG
TT

CATTTCTTCAGCAGTTACTTTTTATTTTTTAAAATGTTTTGACACACAAGTCTTNTGG
ATAAATGAATCANTTCACCCAANCACCCCGATTACTTCTCCTTGCTCTGGNTNAA
GT

NGNTGAACACNTGTCCCTTTTTGAAGAAATCTGGGNCGACAGCTTATGTATCCCCATTCA
CCCACAACACCCCCAAAAAATTTATTGTCTTGGGGTCCCCAGGGGAGNTT
ACCCTTTTTAATGGAAGAAAGGTNCCATTCTTGNGGAAAGAACCCTNGGGAATGNTTTC
AANAAGGAAACCTTTCCCTGGGGGAAAAACAACCTGNAAAAGGAAAAAATTAAGGAAG
GGCCCGGGGCC

Sequence 213

GCGGNGCGGCCGTTTGAGAAGCCAGCGCTCACCCACCCGGGTCTCTGTGCATTGACCT
TTGGGTGCTGACTTGGAGAAAAGCACAAACACGACCAGTCCCCCGCGTACCTCGGNG

Sequence 214

TCCCGCGGTGGCGGCCGAGGTACATGCCTACAGATAGTCCAGCTACTCGGGAGGGCTGA
GGCAGGAGAATCGCTTGAACCCAAGAGGCGTAAGTTGCAGTGAGCCGAGATCATGGCACT
GCACTCCAGCCTGGGTGACAGAGAGAGACTCCATAAGAAAAAAGAAAAAAGGGGGGC
AAAAAGAAACAGATGAAACCAATGTGAATAATTTATTTAACACAATATACCTAACATAT
TTTTATTTCAATATCTAACAGTATAAAAATTTACTTGTTTTGCCCTCTAGAGATAGTAA
GCTCCTTAAGTAAACAGAAGTAATACCTGATTAATTAGAATCCCAACCCTCATCAAGTG
TGTGCTTATATAGAAGAAACCCAGTAAATGTTTGTTGATTGAAAGATATTAATACTCTT
G

CTTGATGAGAGTGAGGAAAAAGGTATTAAGTATTGGCTTT

Sequence 215

GNGGCGGCCGAGGTACTTTGGAGTCCCCTGGTTTCTCAAGAATTGCCGTTGACTCTTTCT
TTGGCTTCTGCTGGCACGGTAACCAGACTCCCTACAACCTGCACTCTTTGTCTTTGTCA
TG

GAAGCCGCGAGCGTAGAGGTTCCGCGTGCTCTGCCGGACTTGAGCAGGTCACTGGGTCCT
TTACACTTGTGAATTCGAAGCTTGCCAGATGTATCCTCAATGCATTGCCACTTCTGCC
CC

GGTTGTTACAGGCTGTCTGGTACGAGATCTCCGACCAGTCTGGGGGCGCTGGCGGCCTG
CGCAGCCACCTCAAGATCACAGATTCTGCTGGCCATATTCTCTACTCCAAAGAGGATGCA
ACCAAGGGGAAATTTGCCTTTACCACTGAAGATTATGACATGTTTGAAGTGTGTTTGAAG
AGCAAGGGAACAGGGCGGATACCTGACCAACTCGTGATCCTAGACATGAAGCATGGAGTG
GAGGCGAAAAATTACGAAGAGATTGCAAAAGTTGAGAAAGC

Sequence 216

CCGCGGNGGCGGCCGAGGTACTTTGGAGTCCCCTGGTTTCTCAAGAATTGCCGTTGACTC
TTTCTTTGGCTTCTGCTGGCACGGTAACCAGACTCCCTACAACCTGCACTCTTTGTCTT
TG

TCATGGAAGCCGCGAGCGTAGAGGTTCCGCGTGCTCTGCCGGACTGTGAGCAGGTCACTG
GGTCTTTACACTTGTGAATTCGAAGCTTGCCAGATGTATCCTCAATGCATTGCCACT
TC

TGCCCCGGTTGTTACAGGCTGTCTGGTACCGAGATCTCCGACCAGTCTGGGGGCGCTGG

Table 1

CGGCCTGCGCAGCCACCTCAAGATCACAGATTCTGCTGGCCATATTCTCTACTCCAAAGA
GGATGCAACCAAGGGGAAATTTGCCTTTACCACTGAAGATTATGACATGTTGAAGTGTG
TTTTGAGAGCAAGGGAACAGGGCGGATACCTGACCAACTCGTGATCCTAGACATGAAGCA
TGGAGTGGAGGCGAAAAATTACGA

Sequence 217

CCCGCGGTGGCGGCCGAGGTACTATCAAACAACATGATACAATTTAAATGTGTCATAGCA
ACTACTAGTGGTCACCTGAAATCCATTTTCCCTCCTTCACAGTAAGAGTTTAgNTG
AA
TGAGTGGCCACTCATAGAGAGATTGCATTTCTGGCTTCCCTTGCAGCCATAGGTAGCCAT
GGGACAAAGTTCTAACCCAGGGGGGGTCCAATCTTTGGCTTCCCTGGGACACACTGGAA
GAAGAAGAATTGCTTGGGCCACACATAAAATACACTGGCATCAAGGATAGCTGATGAGC
AAAAAAAAAAAAAAAAAAAAAGTACCTGCC

Sequence 218

CCCGCGGTGGCGGCCGAGGTACCATCCTGTTTCNACAGAGCCATTGCCTATTCTAAATTG
AATCCGACTGGGCGTGCCCTCCTCGGAACACAACAGTAGACCTTAATAGTGGAACATC
GATGTGCCTCCCAACATGACAAGCTGGGCCAGCTTTCATAATGGTGTGGCTGCTGGCCTG
AAGATAGCTCCTGCCTCCAGATCGACTCAGCTTGGATTGTTTACAATAAGCCCAAGCAT
GCTGAGTTGGCCAATGAGTATGCTGGCTTCTCATGGCTCTGGGTTTGAATGGGCACCTT
ACCAAGCTGGCGACTCTCAATATCCATGACTACTTGACCAAGGGCCATGAAATGACAAGC
ATTGGACTGCTACTTGGTGTCTGCTGCAAACTAGGCACCATGGATATGTCTATTA
CT
CGGCTTCTTAGCATTACATTCTGCTCTCTTACCCCCAACGTCCACAGAGCTG

Sequence 219

GTTATTGGTGGTGAAGACCCGNAGCAACAGTGGGCATGTCTTCTCGCGGTCGATCGGNTT
CTCTGGCTCCTTNTAATTTCTCCTGCGNAACGCGCGACTCCACCGCCATCTTCTCCT
ACGGCCTGCGAGAGCTCCCCCGGTACCTCGGCCGCTCTAGAACTAAGTGGGATCCCCC
GGGCT

Sequence 220

GGCGGCCGAGGTACCATGATATCATGTATCCTGCTTGGACATTTTGGGAAGGGGGACCTG
CTGTTTGGCCAATTTATCCTACAGGTCTTGGACGGTGGGACCTCTTCAGAGAAGATCTGG
TAAGGTCAGCAGCACAGTGGCCATGGAAAAAGAAAACTCTACAGCATATTTCCGAGGAT
CAAGGACAAGTCCAGAACGAGATCCTCTCATTCTTCTGTCTCGGAAAAACCCAAAACCTTG
TTGATGCAGAATACACCAAAAACAGGCCTGGAAATCTATGAAAGATACCTTAGGAAAGC
CAGCTGCTAAGGATGTCCATCTTGTGGATCACTGCAAATACAAGTATCTGTTAATTTT
C
GAGGCGTAGCTGCAAGTTTCCGGTTTAAACACCTCTTCTGTGTGGCTCACTTGTTTT
CC
ATGTTGGTGTGAGTGGCTAGAATTCTTCTATCCACAGCTGAAGCCATGGGTTCCTATA
TCCAGTCAAAACAGATCTCTCCAATGTCCAAGAGCTGNTACAATTTGTAA

Sequence 221

GCNGGTACAGCAACAAGAATCAGATGCTCTTTAGAGATCCTCCATTTCACTACTCTAACA
TTCTTCAATGTGGTTCCAGCCACGCATAGTCATATAGATACTACATATNCAAAGATAAC
T
TACTGAAGCTTGTTACAGAACCAAGCTTTCTCCTGGATAAGCTCTTCTNTCCCCCTAC
CC
CGCACTTCTTGGGNAAGGTATTACCCCAAAATGCTCTTCAGNCGATTTAAATAAACAAT
TTTTTAAAAANANGGACACTTAACACTCACAAAAAATGGGGGAAATTTTGCTCGGGCCA
TTGGACNGCGGAAACCAAAATTACCGGGTTTAACTTCCAAGNATGGCTTGTCATTTCAAAA
ACCTGGTATTGGGGGTCCCGTTTCGGAAAAAANANATAGGATATTAACCCATNTTTTCT
CATAAGGACCAAGCTATTCTTACNTTTAATCAACCCAAATTTCTGGGGGGAAAGGNCC

Table I

TTTCTTCTTATTTTAGGTCTTCGGGGATAGGTCTTNTANTCCCAATAAATAATTGGGGT
 T
 AGGTATTCAATCCATAATCCTCCCAGGACCCTGGGTTTTCCCTNGGAAGAAACAAGGGAA
 GAGGTCNNTGCTGGTATCCTCNAAGGTTGGAAACCAAGCTTGGCNACTTTATCTTCT
 TAAACTTTCTTTTGGGAAGGAACCCAGGTTTCAAGATATTTTTTTTGGGGAA
 Sequence 222
 ATGGCCGGCCTGCGGAACGAAAGTGAACAGGAGCCGCTCTTAGGCGACACACCTGGAAGC
 AGAGAATGGGACATTTAGAGACTGAAGAGCATTATAAGAGCCGATGGAGATCTATTAGG
 ATTTTATATCTTACTATGTTTCTCANCAGATGTAGGGTTTTCTGTAGATGATGATGTCC
 A
 TATGGCCATATCTCCAAAAGANATGAATCCGACAGCNGATACAAAGTTTTTTGGGCTGGG
 TTTATTGCNTCATATAGNNCTTTGGCCCAAATGGNANGCTTCACCCATATNTTGGGT
 TT
 ATGGNCTAAATTATTANGACCCANAGGA :AAGGAGCCTCNTTAATTGGTCTCCCATCTT
 GATTTTTCCCGTGGNAAGCACAACTGCCCTCTATGCATATCTCCACCATCCCCAAGCT
 TTCTCATAAANTAAAAATAACCTACCAATGGCCTGGGTTGCNTCCGTNGGGAATTTGNNT
 GGGGAAATTTGGGAAGCCANGTTTTTTTCAAGACCTTNGGNNTTACAATCCCTTTGGG
 AGAAA
 Sequence 223
 GGGCGGCCGAGTGATGCCATCTGCAGTTTTGTGATCTGCAATGATTCTTCCCTTCGAGG
 TCAGCCCATTATCTTTAATCCTGACTTTTTTGTGGAGAACTCCGACATGAGAAACCT
 GA
 GATTTTCACTGAGTTGGTGGTCAGCAATATCACAAGGCTCATCGATTTACCTGGAAGTGA
 GTTGGCTCANCTGATGGGGGAAGTGGACCTTAAGTTGCCTGGCGGGGCTGGCCAGCATC
 AGGATTCTTCCGGTCTCTCATGTCTCTCAAGCGAAAGGAAAAAGGAGTGATTTTGGGTC
 CCCACTGACGGAGGAAGGCATTGCCAGATATACCAACTGATTGAGTATCTACACAAAAA
 CTTGCGAGTAGAGGGTTTGTAGAGTACCT
 Sequence 224
 CCGCCCGGGCAGGTACTCCCTGATAAAGGGGAATTTCCATGCCGTCTACAGGGATGACCT
 GAAGAAATTGCTAGAGACCGAGTGTCTCAGTATATCAGGAAAAAGGGTGCAGACGCTCTG
 GTTCAAAGAGTTGGATATCAACACTGATGGTGCAGTTAACTTCCAGGAGTTCCTCATTCT
 GGTGATAAAGATGGGCGTGGCAGCCCAAAAAAAGCCATGAAGAAAGCCACAAAGAGTA
 GCTGAGTTACTGGGCCCAGAGGCTGGGCCCCCTGGACATGTACAGACTCTCATTTTATGAT
 GTATCCTACTGCATCAGGACATTTGTGTCAATGTCAGGTGACGAGGGGAAATGAAAGTGA
 TGAGACGATGAGAGGAGTGAAATACCAAGGACGCCATACTAGGAAACCCAGGTCTATTTG
 TTATCAGAGTAAGGATCAAGCCAGATAGCCTGTTATGTAATTTCTCCGATAAAAGATTT
 T
 GAAAGCAGGTGCTGTGGGCATCTGTATGGGGGAATCGCACTCATAGAATTATTTTCATT
 GTAAATATTTGGTATCAGGCCAGCAAGGGAAA
 Sequence 225
 CTCCCCGCGGTGGCGGCCGAGGTACTCACAGTCACGCAAATTCACAGTCTGCGTGACGG
 CTCTCCATTCTTCTTGGCTTTACAGGTTCCAGGTCAAGAGCTTCACCCATAATTA
 A
 GACCTTCTGAGGATGATCGATAGATAAACACACCTCCTCTGAACCATCCTTGGGCTTCAT
 GGGGTTGGCATTGAGGATCCCTACGACAGTCCCTGCTCCGTCTTCCAGAGCGCTTTGTG
 AACTTCTCCAAATAAGAACAAAGGACACACATTGTGTCAGGTACGAAGATCATTAGTTT
 CCATATGCTGAAGGTTTTTCCACTATTCACTCTGTGGCGTAACCTTCTCAATATAA
 C
 CCCAAATGTCACCCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCCTTGATCT
 G
 AGACAGTCTGATCAGTTTT

Table I

Sequence 226

TTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGATGGATAGCCGCTTGCA
GGAGATCCGGGAGCGGCAGAAATTACGCGACAGCTCCTCGCGCAGCAGTTGGGAGCTGA
AAGTGCCGACAGCATTGGTGCCGTGTTAAATAGCAAAGATGAGCAGAGAGAAATTGCTGA
AACAAGAGAACTTGCAGGGCTTCCTATGATACCTCTGCTCCAAATGCAAACGTAAGTA
TCTGGATGAAGGAGAGACAGATGAGGACAAAATGGAAGAATATAAGGATGAAGTAGAAAT
GCAACAGGATGAAGCTTATCATCAATTCATTGTATAAAAAATAAGAGATTTTCCTGAGAG
AACTGATTTCAAATGCTTCTGATGCTTTAGATAAGATAAGGCTAATATCACTGACTGAT
G
AAAAT

Sequence 227

CNCCGCGGTGGCGGCCGCCCGGGCAGGTACGCAAAGTGATTCAGAGAACCCTGGGGCTCA
CAGGCGCTGTAGCAAACGTGCAACTCTTGAGGAACACTTAAGACGCCACCATTCAGAAAC
CAAAAAGCTACAGAAGGTCCAGGCTACTGAAAAGCATCAAGACCAAGCTGTTACTAGCTC
TGCGCATCACAGAGGGGGGCATGGTGTTCACATGGGAAATTGTTAAACAGAAATCAGA
GGAGCCATCGGTGTCAATACCTTCCTACAACTGCATTATTAAGAAGTTCAGGGAGTCT
TGGGCACAGACCAAGCCAGGAGATGGATAAAATGTTAAAAAATCAAGCAACTTCTGCTAC
TTCTGAAAAGGATAATGATGATGACCAAAGTGACAAGGTACCTCGGCCGCTCTAGAACT
AGTG

Sequence 228

GAGCTCCCTCCTACCCCTAGCTGAGTAGGCCAGGTTTTGGTGCAAAATCTCCACATTG
GCAAAGTTCTGCATATGCTGCGCAGTATGNGCCTTGAATAAAAATCCTGAAGATTAGAT
GGTTCAGGCTGCATCATCCCAAAGCAAAGAGCACCTCTTTGAAGCTCACCTGCCCGGGCG
GCCGAGGTACTTTTTTTTTTTTTTTTTTTTCAGTANGNAGCTTTAAACAGTTACATAT

Sequence 229

TGCGGCCGAGGTACTACAGGATGATGGCTTCTCTCTCCTCTGGGTACAGGCCANGGGCC
ATGGAGTTGGGAGAGAATGTCTAAACCTCTGGGGGTATGAACGGGTAGATGAAATTATT
TGGGTGAAGACAAATCAACTGCAACGCATCATTGACAGAGCCGTACCTGCCCGGGCGGT
CGAGCGGCCGCCCGGGCAGGTACTTNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTGGGAACCNAGTACATTGNTCAGTTTTTACTTGNAAGAGT
NTTATAGANAGTTTTATTGGAATGTTATTTTATTAAGCCNTTTTCATGGGTATTTTTT
TTTAAAGTTTAAAAAGTTTTTACAACANGCTGGGNGGGGGGNTTNCACCTGGCATCCCA
GCACTTTTGGAGGNCCCGGGCGGCANAAACCTGANGGCGGGGAGGTTTAAAAAANCNACC
CTGNCCANATTGGNAAACCCNTTTTTTTCTTAAATTCCTCAAATTAATTC
C

Sequence 230

GGCGGCCCGGGCAGGTACGCGGGGGAGTCAGACCCAGTCAGGACACAGCATGG

Sequence 231

CCACCGCGGTGGCGGNCGAGGTACGACGTTTCCATCAGCTTGTCTGTTTCATTCCCTGAT
GTTACGAGCAATATGACCATCTTCTGTATTCTGGAACTGACAAGACGCGGCTTTATCT
TCACCTTTCTCTATAGAGCTTGAGGACCCTCAGCCTCCCCCAGACCACATTCCTTGGATT
ACAGCTGTACCTGCCCGGGCGGCCGCTCTAGAACTAGGTGGATCCCCCGGGCTTGCAGGT
AATNTCGGATATCAAGCCTTATNCGATACCCGTCGACCCTTCGGAGGGGGGNGGGCCCCCG
GGTACCCAGCCTTNTTGTTCCTTTTGGTGGAGGGGGTTTAAATTTGCCGCGCNT
TGNGCGGTAAATTCAATGGGTTCATTAGGCTTGTCTTCCCCTGTGGTGNAAAATTNGTTA
ATCNCGGCTCACCAANTTTCCACCACAAACCAATANCGNAGNCCCGGGGGAGGCCATTA
AAAAGGTNGTAAAAAGCCCTTGGGGGGTGGCCCTAATGAAGTGGAGCCTAAACTTCACA
ATTAAATTTGCCGTTTGGCGCTTCACTTGCCCCGCTTTTTTCAAAGTCCGGGGA

Table 1

Sequence 232

CGGTGGCGGCCGCCCGGGCAGGTACTTTATTTTTTTTTTTTTTTTTTTTNCCTTNA
A
AAAAAAAAAANGATATTTTAATATATTCAGATCCNCAAATATGAAATAAACTAAGNNGA
GCTGGTATTCATTACACATAATTATCTTATACCGTTNGGAATAAGAATTTGGGGCNC
GT
TAGCAAACCAAAGGCTCAAAAAGACGTCGNGATATTTAGTTCTTGTCTCCCTCTACAAA
NGGGAAGCACTNTTTTATCCGGCATTCCTAGGGGNGTTCCTATTTTCAA

Sequence 233

CGGTGGCGGCCGNCCGGGCAGGACGCGGGGGCCAGTTCTCTTCGGGGACTAACTGCAACG
GAGAGACTCAAGATGATTCCCTTTTTACCCATGTTTTCTCTACTATTGCTGCTTATTGT
T
AACCTATAAAACGCCAACCAATCATTATGACAAGATCTTGGCTCATAGTCGTATCAGGGGT
CGGGGACCAAGGCCCAAATGTCTGTGCCCTTCAACANGATTTGGGCACCAAAAAGAAAT
ACTTCAGCCACTTGTAAAGAACTGGGTATAAANAAGTCCATCTGTGGGACAGNAAAAAC
CGACTGTGGNTATTATGGAANTGTTGCCCTGGGTATTATGGAGGAATNGGGAAAGGGA
AATGGAAAAGGGCTGCCCAAGNCANTTTTTAGCCCATTTGACCCANTGGTTTTATTGGG
CACCTTCTGGGGCCATCCGGTNGGGGGAGGCNCACCCACCAAACCGGNAAGCCGCCCTA
TTTCCTTGGACCGNCCCTNAAANAAACCTTGAAGGGGGAAGGGGNGGAATCCGGAGGGGG
AAAAGGGGGGA

Sequence 234

CGCGGAGGCGGCCGCCCGGGCAGGTACAGTATAGGTTGGTTTTGCCTGTTTTGACGCTTT
ATATATACGTAGACACACATACATGTATATATACACACACATTTTACATATATATA
TGAAACTGTATAATGTGTTTCGCTTCAGTGTCTGGCTGCTTTTACTCAACATTGTGAAAT
T
AATTCCTGTTATCGGNATATGGGTATCNAATTTGNTTTGCCCTAGTTTTTGCCTTCTC
A
TTGCTTTCTGAATTGGGGGCAGCTTTGCCCTCAAGGGGAAATTTAGCAATGTCTGGAGA
CATTTTTTTTATTTTCATAATTTNGGGAGGGGACATGGGGGGAGGTTTGGTGGCTACAGG
AACCTTAATTAAGGTTGAGGGACAGGGGTAGGTGCTTGAACGGTTNCCACANGTAACA
CTTCGGGCNCGCTTNTAAGAAACCTAGGTGGGATTCCCCCNGGGTCTGGCNANGGAAA
ATTCGGANTATTNCNAAGCCTTANTCGANTACCCCGGNCGACCTTNGANNGGGGGGGG

Sequence 235

CGCGGTGGCGGCCGAGGACTTTTTTTTTTTTTTTTTTTTTTTTATAATAATTTGT
CATTTTTGTAGAGACAAGGTCTCCCATGTTGCCAGGCTGGTCTCAAACCTCCTAGGCTCA
ACTGATCCTCCTACCTCCACCTNTGCCTCCCAATTATCCCAATTGAGAGATGAAAATTC
TGACAAGCTCTCAAACGTAACTGACTTGCCCATAAATGACAGTTCCAAAGTTATAAGGG
CCTAGNAACNTTGAATCCAGGTNCTGTTAGNAAATTCTAGGGTTTGAGAAATCCCATATT
TCTNTCCACTTCCCGCGGTACCCTGCCCCCGGGGCCGGGCCGCTTCTAGGAACNTAGGT
GGGATCCCCCCCCGGGGCTTGCAGGGAATCCGATATTCAAGCCTTATTCGGATAACCCGT
CCGACCTCGAAGGGGGGGGGGGCCCCGGGTACCCAAGCTTTTTGTTCCTTTTAGTGG
AGGGGGTTTAAATT

Sequence 236

GCGGCCGNCCGGGCAGGNACCTACGCCACAGACAGCCAGAGGGAAAGCGACCCAGACAGC
AGCCCCCTCCTCGACAGGCCACCCCTGCAGCTCAGGCACCAAGAAAACAGCCGATACTGGC
AGCCATTGCAGCTCCAACTGCANNAGGCAAGGCCAATTTTAACTTTTCAATTTACAGTC
GATTTTGAAGAGCTTTCTACATATCCGGTTATGTAAANTTCATATATGTATTTTGGAA
ATCAGTTCCTTATANAACCAGCCTCCGATTCAAGTCTTAGGCTAAAATTTATAGGTCC
T

Table 1

AAGGGTAGGTATGGTTAAACAATTTTGAACCTTTTTGGTCCTTAAAGAAAAAGGTTGGAC
TTGTTTCAANATANTTTCTNTCTTACCTNGTGAAAAGGAAATCNTTACTTTTTCTTAA
TTAAAAAGGAATCTTGTTACCCTTCGGGCTCCGCTTCTTAGGAACTTAGGTGGGGATC
NCCCCCGGGGTCTTGNGAAGGNAATTTTGAATATCCAAAGGCTTTTATTCGAATAC
CCCCGGCTCGGAACCTCGNAGGGGGGGGGGGCCCCGGGTACCCCCAAGCTTTTTTNGT

Sequence 237

GCAGTTTTGTGATCTGCAATGATTCTTCCCTTCGAGGTCAGCCCATTATCTTTAATCCT
G
ACTTTTTGTGGAGAACTCCGACATGAGAACTGAGATTTTCACTGAGTTGGTGGTCA
GCAATATCACAAGGCTCATCGATTACCTGGAAGTGAAGTGGCTCAGCTGATGGGGGAAG
TGGACCTTAAGTTGCCTGGCGGGGCTGGCCAGCATCAGGATTCTTCCGGTCTCTCATGT
CTCTCAAGCGAAAGGAAAAAGGAGTGATTTTGGTCCCCACTGACGGAGGAAGGCATTG
CCCAGATATACCAACTGATTGAGTATCTACACAAAACCTTGCAGTAGAGGGTTTGTTA
GAGTACCT

Sequence 238

CCCGCGGTGGCGGCCGAGGTACGCGGGGATTGTGTGCAAAATCAGAGAGGGGTGCAAGGA
TCCTGATTTTTCAGGAGTTCAAGCGACAATGGCAGCCCAATACGNNAGTATGAGCTTCAA
CCCCAGCACACCAGGGGCCAGTTATGGGCTGGAAGGCAAGAGCCAGAAATCCCAATT
GAGAATTGTGTTAGTGGGTAAAACCGGAGCAGGAAAAAGTGCAACAGGAAACAGCATCCT
TGGCCGGAAGTGTTTCACTTCTGGCACTGCAGCAAAATCCATTACCAAGAAGTGAGAA
ACGCAGCAGCTCATGGAAGGAAACAGAACTTGTCCGTAGTTGACACACCAGGCATTTTCG
ACACAGAGGTGCCCAATGC

Sequence 239

CCGCGGTGGCGGCCGAGGTACCAGTTAAGTGAACAGCTCGTCTAGGTCTGCTTTTGTAACT
ACCCAAATACAATTAGCACTTCTCTGCTGGTATTCCCTGGGCCGTCTTAATTATCTAG
AG
GCCAGGAGGCAAAGCCTAGCACGTAACAAAGTATGTGCTTTGTAAGTCTGATTAATTCA
GTTTCTTAAGTGGCAGAGCAGGTCATCAGTGATCTAATTCACACTATTAATACACTG
T
CTTGCTGAAGAGTCTGACCCTGCCCAGGAACCCCCGTTATGGCCTAGCCCCAGNNGGGAAG
NCAGTAAAACCTGCCAANAGCCAGGAGAAAAAAGGGGGGCCAGTCTTAAGAATGAAGGCC
TAGGTGCTTGGCCTGGAGCTCCAGTTTTAGGGTCTGTTACTGTTTCTGGTTTCCAAC
TTATTAATAATCCAGGGGATGGACCTGGTTACCTCAGATTTAGGTTGCCTTATGGTAGGA
AAAATAGGAATGCCACAGGCCAAAAAACATTAATTTTGGGGGGGATGGACTTGGGCAGNC
ACCTTTTTTTTTTCCCTTTTC

TT

Sequence 240

GNGGNGGGCCGGCCCCGAGGTACTTTTTTTTTNTTTTTTTGGTATGACTATAGATGGC
TA
GTGNGTCTTTTTATTAGCTATCANCCTCATTTAACAGACAAAAAATCAAGTCAATG
N
NNGGNCATTAAATACGGAAGAATTAACAATAAGTTCATTAATCAATCTTTCANCTGTT
C
CTATTTTATCACAATNACTTTTCTTANAATTGGAANAAGGATNCATGGGAAGGGGACAA
GTCTTGGAAAAACGCAACCGTAATTGTGTTCTTCAAATCCATAAAAGACACTTCAGG
NNCAAAAAATAAATAACAAGGNAAGGGCCGCNTCATTACCTNTTAGTTTNGGGNGTN
GGAAATTGAATCATGGCCAAGTGCCTAAGNGCNTTTTTGCTGNTNAGTTAACCCNCCGTG
CCCGCTCNTAGGAAACCTATGNTGNGGATCCCCCGGGGCTTGCCANGNGGAAATTT
CGAATAATCCAAANGCCTTTATCCGGAATACCCGTCCGGACCCNCCGAAGGGGGGGGGG
GGG

Table 1

Sequence 241

GCGGTGGCGGCCCGGTGTGCTGTGCTCAGCTGCCTTCCAAAGGAGGAACAAGATCGGCAA
GTGCTCGACGCGTGGCCGAAAATGCTGCCGAAGAAAGAAATAAAACCCTGAAACATGAC
GAGAGTGTGTAAAGTGTGGAAATGCCTTCTTAAAGTTTATAAAAGTAAATCAAATTAC
ATTTTTTTTCCAAAAAAAAAAAAAAAAAGTACCT

Sequence 242

TGTCTCAGATCAAGGAAAAGATGGCCAGAGAGAAGCTGGAAGAAATAGATTGGGTGACAT
TTGGGGTTATATTGAAGAAGGTTACGCNACAGAGTGTGAATAGTGGAAAAACCTTCAGCA
TATGGAAACTGAATGATCTTCGTGACCTGACACAATGTGTGCCTTGTTCTTATTGGA
G
AAGTTCACAAAGCGCTCTGGAAGACGGAGCAGGGGACTGTCGTAGGGATCCTCAATGCCA
ACCCCATGAAGCCCAAGGATGGTTCAGAGGAGCGTGACTGTGAGTACCT

Sequence 243

GTACGCGGGGTGCTGGGATTACAGGCACGAGCCAGTGCGCCCAGCTGCCTCTGTTTCTTT
TATTAAGCTGTTCTGGACTGTGGGGCTCCTTGGGCAGATGCTGTATTATGGGGATAAGCC
ACACACTTTTTGAACTGGCCCGGTGAGGGGGGACATAACCATTNCTGTGCCACCCCATC
AATCCCCACCTATTCTGAGTGTAGGCTCCTCCCTGCTTGAGTAATGGCCACAGATCTTG
GCTCGGCACTCCTAAGCTGCATGTTGAATTCCTGGGACAACAAGACTGGCTTGTTGGTTCC
ATTCTCCAGATCCTTGGGTTGGCTTCTGGGTGCACTAGGAGATCTGAAATGCTCTCAGGC
CACCAGGAAAGTACTGGAAGTAAAGTCTGACTCTAAAGAAGATGAAAATCTAGTAATTAA
TGAAGTAATAAATCTTCCAAAGGGAAAAACGCAAGGNAGAACATCAAACAGCTTGTC
TTGTAGTTCTCAATGCACGCAAGGGTCTGAAAAGTGTNCTCAGAAAGACTCTNNAAGAGAC
GAAACGAACCCTGTGCCTGTAACTTTTGAGGNGAAAAGAACAAAAATGGCTCTTAGGNGG
TCCCGAAAAAAN

Sequence 244

TCCACCCACCTCGGCCCTCCAGTGTGCTGGGATTACAGGCATGAGCCACGGCACCCGGCC
CTGGTTTGCTTTCTGAACCATGTCAATACAGTACCACCACAGTTGCTATCTCTTGAAC
AT
CTTTCATTAACATCACCGTCTAGTTTGAGAATACTTTTAAGCCTGCTGGCCTCCTTT
G
GGGCATTCTTTTTCTCTTTTCAGCACGCATCTTTCTTTTCCACTTACTCCGTAAGCTT
T
TAGCCATGTTTTACCTTGAGGGCCGAAGTTAACTTCAGCGGGAGTGAACGACAGGGGTGG
GCTCCACTTTATCCAGTGCACTCGGAAGCCGGAGGGCCCCCACCAAAAAGAGCAAGGGGA
ACCCTC

Sequence 245

CCCCGCGGTGGCGGCCGCCGGGCAGGTACAATTGCTTGAGTGAGTTCATGGTCCGTAGG
AGGATGACCACTAGCCACACCTTCCACTGTTTCTACAGTCCTGGNCAGCAAGTTTGGA
GTTAAGGCTTCAAATCCTGCAGCACACATGCCGAAGGTATTGCCCAGGATCTTGTTGG
GTCTCGTTGTAGTAGCAGTAGCGAATGTTTGTGGCTGCTATGAAGAGTCAAAGGGGTGCG
TCCTGCTTTATGTTCAAGTGTCCATTCTTTATTTTCTTCTGCAGCTGTCGCA
T

Sequence 246

GCGGCCGTGGGGATCAGCGTAGGTGAGCTGNGGCCTTTTGCGAGGTGCTGCAGCCATAGC
TACGTGCGTTGCTACCGAGGATTGAGCGTCTCCACCCATCTTCTGCGCNGNCAACATCT
ACATAATGAATCCAGTATGAAGCAGCAACAAGAAGAAATCAAAGAAGAATATAAAGAA
ATAGTTCTTGTCCCAAAGGAAGGAACTCTTGAAGGATTGAATTTAGCCCTTCTTGTCAT
CTTGGGATCTCTTGTTGGGAAACGGAAGGAAANAAATNGGAAGCCTTGTCGCCGAAGNG
CTTTGTCCANANAAAGGGGAAAACCATCTGGGGAATGGACCCACCTTTAAACCATCTAC
CAAACCTTCCAAGCCCCTTGGGGGGGTNTATTTGGTCCCCAACACAAAAAATAGAAGTA

Table 1

TAAAGAAATANAGGTTANCCTTCGGGGCCGCTTCTTANGGAACCTAGNNGGGGAATCCCC
CCGGGGCCTTGCCAGGGGAAATTCNGGAATNTTCAAAAGCCTTTATCGGAATACCCCGTC
CGGACCCTTCGGAGGGGGGGGGGGGGCCCCGG

Sequence 247

GGCTTGCTTGACTAGATGAGCTGCTATAGTAGCCAATCCTGTTAGACTTGGACCATTGTT
TGCTGAAGAANGGGAATCTGTCGCTCGCCCTGAGCACTGTATTTATCCCCTTACTCAA
GNCCCAAGGGACTTCTCCAAGTAGCCGACAAACTCTGCCGGGCCGCCGCCATCTCCGG
GCCCCGCTCTAGAACTAAGTTGGGGATCCCCCGGGGGCTTGCAAGGGGAAATTTCCGAA
TATCAAAAGCTTATCAGAATAACCCGTCCGAACCTTCGGAAGGGGGGGGGGGGCNCCGG
GGTACCCCAAGCTTTTTTGTNTCCCTTTTAAGTGGAAGGGGGTTAAATTNGCCGCCGC
NTTGGGCGGTAAANTCANTGGGTCAATAGGCTTGTTCCTGGTNGTCGAAAAATTTG
NNTTATTCGCTCACCAAATTCNCACAACAACAATAACCGAAGCCCGGGGGAGGCCA
TAAAAAGGTTGGTAAAAAGNCNCTTGGGGGTGGCNCTAAATGGGAAGTNGAGCTAA
CTTCACAATTAATTTGCCGTTTGGCCGCTTCACTGGNCCCGCTTTTCCAAGT

Sequence 248

CCNCTCCCGCGGTGGCGGCCGAGGTACTTTNTTTTTTTTTTTTTTTTTTTCTTTTT
TTTTTTTTTTTTTTTTTNCAGAGACNAGGAATTAATTAGGGNTGTAACAAATGGTTA
ATTNTAGNAAGAAAAACCAATTTGAATAATTTCTAACTCACTTGGCAGGGGGGGNCTCG
CANCCNTAATGAACATCACATAATGAAGTTNCTCCTTTCCANATCTATAAACAGGCTCAT
GTAATAACTGATNCTCAGTAAAANGNNCATAATCCAAATNTNTNTAACAAANGGGGCT
TGCTATAAAATCTCTTACATTTTAANACTTACTCTTAANAAATCATCTATTCTTCCCTC

Sequence 249

AGACTGTCTCAGATCAAGGAAAAAGATGGCCAGAGAGAAAGCTGGAAGAAATAAGATTGGG
TGACATTTGGGGTTATATTGAAGAAGGTTACGCCACGGAGTGTGAATAGTGAAAAACCT
TCAGCATATGGAACTGAATGATCTTCGTGACCTGACACAATGTGTGCTTGTCTT
AT
TTGGAGAAGTTCACAAAGCCGCTCTGGAAGACGGAGCAGGGGACTGTGCTAGGGATCCTC
AATGCCAACCCCATGAAGCCCAAGGATGGTTCAGAGGAGGTGTGTTTATCTATCGATCAT
CCTCAGAAGGTCTTAATTATGGGTGAAGCTCTTGACCTGGGAACCTGTAAAGCCAAGAAG
AAGAATGGAGAGCCCGTGCACGCAGACTGTGAATTTGCGTGACTGTGAGTACCT

Sequence 250

CGGCCGGAGTGATGCCATCTGCAGTTTTGTGATCTGCAATGATTCTTCCCTTCGAGGTCA
GCCCATTTATCTTTAATCCGGACTTTTTTGTGGAGAACTCCGACATGAGAAACCTGAGAT
TTTCACTGAGTTGGTGGTCAGCAATATCACAAGGCTCATCGATTTACCTGGAACCTGAGTT
GGCTCAGCTGATGGGGGAAGTGACCTTAAGTTGCCTGGCGGGGCTGGCCCAGCATCAGG
ATTCTTCCGGTCTCTCATGTCTCTCAAGCGAAAGGAAAAAGGAGTGATATTTGGGTCCCC
ACTGACGGAGGAAGGCATTGCCAGATATACCAACTGATTGAGTATCTACACAAAACTT
GCGAGTAGAGGGTTTGTGTTAGAGTACCT

Sequence 251

TGGCGGCCGAGGTACCAGCACAAACCGGGCCAGCCTCCTAAACTGCTCATTTACTGGGCG
TCTACCCGGGAATCCGGGGTCCCTGACCGATTCACTGGCAGCAGGG

Sequence 252

AGGTACATTTTACTACGCACCCTTACGCATTCTTTTTCTCACCTCTGTGTGTGTGTGTG
C
GTGCACATGCACACACACAAATGGGTGAAACAATTCTCACCATACCAAGAGCCACCGCGC
CCTGCCGAGAATTTGCATTTCTAACAAGTTCCAGGTGATGCTGACACTGCTGGCTCATG
GAACCACTGCTGTAGTATTTTCCAAATTATCCTGATTCTAAGAACCACCTATGACCTGT
G
CTGTTTTTCTGTGGTACTGGCTCATGTCACATAAATTCTTTTAGGATTCAAACATGT
T

Table 1

TGTGATATTACTCAGTATTTACATCTTGCTTTTACTGCAGCATGATGGAAAAATTAACC
A
CAGGTATATCATAACAAAAAGAACATGAGTTACCATTTTTCACAAAGTTCAGATATATT
T
AAATTAGCCTATTTAATCTTTTTTTTGGGT
T
Sequence 253
GGGNGGCCGGGCCCGCCCGGNCAGGGTACTTTTTTTTTTTTTTTTTTCTACCAGTAG
CC
TATTTAGATTTTATTAAAAAACACATAGGTAACCGAGTCANAGCTTTGGCTAGGAATGAN
TTGAAAAGAACTGAAGGCATAATTCCACAGGACATTCACAGTTAGTGTGCTAGAAGACA
NGAGAGGGAAGCAGGGAAAAAGTGTTTTAAGAAAGCATTGCGGGCCGGGACAAATGGGA
AAGGGCCCCGGGCTTTCATCGAAATTCCTTTGCTTTGCCTTGGATCCCAATCTTGCTTG
GGAAAAGGGTGGGGACAAGGAAGNGCCCAAGGGATGGGGAGCCACCCGATCCCAAGA
CCAAGGAAGTANTTTTGCCGCTCCCGGGANGGGGGGGCAAATTGGATCCTTTGGAATCCT
TCAATGGGTGGCCTNNGGGGTAGCTTAAGGGGGCCCGGTGGAATCCTCCTTTCTNGCATT
TCCGGGGGCCGGGCNAAATNGCCCAAGGGGGGTACCCTTCGGGGCCCGCTTCTAAGAAACC
TAGGGNNGGGGATTCCCCCGGGGCTTGCANNGGAAATTCGGAATATCAAAGCCTTAA
TCGGATACCCGGCGNACCTTCGAGGGGGGGGGGGGGCCCCCGGTACCCAAGCTTTTTGGG
T
Sequence 254
CTCACCGCGGTGGCGGNCGAGGTACTCATGGNTGCTGNAAATCATGGCACGCCCCGTTCTG
CAGGGNTNTGCTTAGCCAGGCTCCTNTGAGATCTGGCTATTNTGNCTTGTTGGATNNTCAG
TCCCCGNGTACCTGCCCGGG
Sequence 255
CTCCCCGCGGTGGCGGCCGAGGTACGCGGGGATTGTGTGCAAAATCAGAGGGGGGTGCAA
AGATCCTGATTTTTCAGGAGTTCAAGCGACAATGGCAGCCCAATACGGCAGTATGAGCTT
CAACCCAGCACACCAGGGGCCAGTTATGGGCCTGGAAGGCAAGAGCCCAGAAATCCCA
ATTGAGAATTGTGTTAGTGGGTAAAACCGGAGCAGGAAAAAGTGCAACAGGAAACAGCAT
CCTTGGCCGGAAGTGTTTATTCTGGCACTGCAGCAAAATCCATTACCAAGAAGTGTA
GAAACGCAGCAGCTCATGGAAGGAAACAGAACTTGTCGTAGTTGACACACCAGGCATTTT
Sequence 256
ANCGCACACCACACNTCTGATTAATNTTTTGNATTTAAANNTTTAGGTGGGGCTNCACC
ATGTTGCCCAGACTGGTNTTGAACCTCTGAGCTTAAGCAATCCACCTGCCTCGGCCTCCC
AAAGNGTTGGGATCACAGGCGTGAGCCACCGCATCCGGCCTCATGTTCTTTTTTCATTA
GAGAGAAATCACTATTCAGGACCGGCCCCACCTTTCTCAGGAGTCATTTCTGTTCCG
CACAGGCCTGCTGAACCTGGGTGCTTTATATAGGGNANAGGGGGCCTCATTTTTNGTTCCC
CTGNCCCNCAAGCNTTANGGGGCAAAAANAAACCATNCCAANAATTTGGNAAAGGGNNT
TTTTTTTTTTNAAAATNNGGNNNGGGGGGGGGCCCCCCTCNCCTTGNGGTGGGNGGNTTT
TNCNGGNGNNAAAAAAAAAAAAAAAAAAAA
Sequence 257
AGTCCCCGCGGTGGCGGCCGAGGTACTCTGACTTGCAGGGCCCAAGACCGGCCTTGCGA
GCGTCGTTGGCTGATGGGAGTAGAAGCCACAGAGAGTCTTCTCTTGGAGGTACAGTCAA
TTCTGAGGTTTGGCGTCATAGACTAAACCCAGAAAACAGAACATTGGGAAGTCTTCGGA
ATATTCTCTATCTTCTTACCAACGAGTAAGACCGTTTTG
Sequence 258
GGCCACGTGACCGACGCCAACATNGCGGCGCCAGTGCGTCCACCTGNTTTTCCGCAGA
GGTCTCATAGAATTTCTCTTCACTCAATCATATCTACTNACACAAGCAGTCAAG
C

Table 1

AGTCAACAAAGAAGAAATTTCTTTTTTCGGAGACAAAGAGATATTCACACAGTATAGTT
TTGCCGGCTGCAGTTTCTTCAGCTCATCCGGTTCCTAAGCACATAAAGAAGCCAGACTAT
GTGACGACAGGCATTGTACCTGCCCAGGCGGCCG

G

Sequence 259

GGTGGCGGCCGGCGGGAGGCTGACGAGAGCCCCGGGAGGCGTTAGCGAAGGAAGAGAAAAA
CCGAAGACGAAGCCACTACAGCCCCGCGTACCT

Sequence 260

GGAGCATAAAGNTGTAAAGCCTGGGTGTGCCCTAATGAGGTGAGCCTAACTTCACATTTA
ATTGCGTTGCGCTCACTTGNACCGCTTTCAGTCGGGGNAAACCCTGTCCGTGCCAGNC
TGGNATTAAATGGAAATCNGGCTCAAACGNCGCCGGGGAGAGGAGGGCGGGTTTTGCCG
GTATTGNGGGCGGCTTCTTCCGCCTTTCTTCGGCTTCAACTGAACTCCGCTTGC

GC

TTCGGGGTNCGGTTTCNGGGCTTGNCGGGGCGNAGGCCGGGTAAATNCAGCCTTCAACTTC
AAAAGGGCNGGGGTAAANTAACNGGGTTTATCCCCACCAGGAAATCAAGGGGGGAATA
NACCGCCANGGGGAAAANGAAACCATGNTGGAGCCAAAAAAGG

Sequence 261

TGTGTTGAAAAATTGTTATCNNNCTTCACAAATTCACACAACATACCGANGCCCGGNNNA
GTCATAAAGTGTAAGCCCTGGGGTGCCTTAATGTAGTGAGCTAACCTCACATTAATTG
CGTTGNGCTCACATGCCCGCTTTTCAAGTTCGG

Sequence 262

GGGCGGCCGAGGTACCCGATAGAACATGGCATCATCACCAACTGGGACGACATGGAAAAAG
ATCTGGCACCCTCTTCTACAATGAGCTTCGTGTTGCCCTGAAGAGCATCCCACCCTG
CTCAGGAGGCACCCCTGAACCCNAAGGCCAACCGGGAGAAAAATGACTTCAAATTATTGT
TTGAGACTTTTCAAATGTCCCANGCCCATGTATGTGGCTTATCCAGGCCGGTGCCTGTC
TTCTCTTATGCCTCTGGNACGCACATCCTGGCATCTGAGCCTGGACTCTTGAGATNGGG
TGTTCACTCCACAAATTGTTCCCCATTCTTATNGAGGGGGGCTATTGCNCTTGCCCCC
ATGNCCNATCATTGNCNTTCTNGGATTCTGGCCTGGCCCGANGAATCTTCACTTGAACATA
CNCTTCATTGGAAANNATCCNTGGACCTGGAANGCGTGGGGCCTAATTTCCCTTTCCGT
TTACCTAACCTGGCTTGNAAGCCGNTGGAGGAATTGGTTCNCGGGGGACCAATTCAAAA
GGAAGAAAANCTGG

Sequence 263

CTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGCAGCCGTTTTT
C

TTACTAGAAGCTAGGCNGAAAGAGTTGTTACTCANATTTCTTGAACCTGAGACGTCAAAG
GTGAGACGCCAGCCAAGGAGAAGGGATGGTCAGGGACCTGCCCG

Sequence 264

CGTGCGGATCTTCTTTTGNNGGCTTCCTTCANGGGGTCAANAAAACCTTCTNGGCC
TTAAAGCCTTCGCTTTGGCTTCAGCTTAGGAGGGGCAGGAGCTCCNCCTTCGANNTC
GGCGCATCTTGNGAAAAGCCCCGCGNACCT

Sequence 265

AGCNCNCCGCGGTGGCGNTNGCCNNGGGCANCCCCGCGGGGTGGAAACCTCTTCAGCATTN
GCTTNNNTCAGGGGGCTAAAAAACCCANCAACCGGGACCCAGCTTTTCAAGACTGCAG
GGNAACAGCCATCATGAGNGAGGGCACCAAGAATTCCCTGGAGAAAATCCTTCCACAGCT
GAAATGCCATTTACCNNGGAATTATTCAAGGAAGACAGNGGCTNNTNGGGANCGNGGGG
ATAGAGNGCGCAACCAGGGNGAAANNNTAAACACNGAGNNCAAAGNGGNCNGGGGNCCCN
CGGCCGCTCTAGAACCAGGGGACCCCGGGCCCGCAGGGAANNCCGANANCAAAGCCNAA
NCGAAACCCGGCNACCNCGAGGGGGGGGGCCCCGGACCCAGCNNNNNGNCCCCCNAA
GGGNGGGGNAAANGNGCCGCGNNGCGGAAANCAAGGGGCAAAGGCNNGGNCCCCNNGGGG
NAAANGGNNANCCGNNCACAANNCCNCACAACAACCAAGCCCGGGAGGCANAAAAGGG

Table 1

GAAAAGCCCN

Sequence 266

AGGTACTTTTCTAGGTATTGCTGGGCAAGATCCTTGTTGGAGTCCTCCTCTTTTGCTG
CC
CCTACTCAGAGGATAGGCAGAGCAGACTGGCAGACACAACAGCACAAGGAATGCAAGATGC
ATCATTCTCACTGCCCTTACCTTCTTTGTCTACTGGGCTTCTCCCCGCGTACCTGCCC
GG
GCGGNCGNTCGAGCCGCCGGGCAGGTACTACCTGNACCAACTTTTTTCATTGGGCATCAC
AAAGACGAGTCTTCTGATGTTCTATAAGCAATATGNTTATATGAAAGNCAGAAGTTTAGC
GAAAATTCGGCCTAAACAGNAATAAATGAAAATGGANTGGAAATCAAAGNNCTTAAATAG
AACANGAAGGCNGGGCACC GGNGGNTCACGCCTNGNANNCCCAGCACT
T

Sequence 267

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTACCTCATTTCTACCAATCATT
TTAAGAGAATTTGGTTGATTTCAAAGAACAAAACACAATTTCTGTCCTGCTGTTT
A
TTTTAGCGGTGGTCGCGGCCGAGGTACGGATACAATTCCGCTGAGTTAGATTCCAAATTC
TAACCTCTCCATCACACGCCCCAGAAAGGACAGTAGCCAGCTTCTCTGGATGCTTTGCCA
AGCAATTGACTCCATCACGGTGACCATCCAGCGAAGCAAGGAATGGTTTTGCAAAATACTC
GTTCCAGTTTGGTAGCATTAAAGCTCTTATATATTCTCGTGGGACCTCAAAGGATG
TA
AAGCAGGATCATAGTTTCTTGAACTCTCTGTAAGTCCAACCTGGTTTCGCGGACATAAT
TGTCCGGATTCCGGCTCAGCATCTTCACCTTCATCTCGGTTGCTCTTC

Sequence 268

NATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTTATATGAAAGTCCTCACTTTTCTAGA
AGCAGAAAAGGAGTAAGTATAGTGGGCATTTTCTATACCAGCTAAGGCTTTAAACATAACA
ACGTCTACTGAACTATTTTCTACTTACTTTGACTGAATAAGCCAGTGAGATCGTGACTG
C
AAGTGGAAGACCTTCTGGCACTGCGACCACTAAAACCTGTAACCTCCAATAATGAAGAACTT
CACAAAGTATTGTATATAAATTGGTGTGCACTCAGCAAGCCATGGTCTTTTCTGAACCCA
GAAGGTGTCAATGACAAAATATAATACTAGAATGATAACTGTGATGGCAGGCATCAACAG
ACCTTTTCTAGAATAGAAATGAAAGAAAATGTGATTATTAATTTCCAGACACTAACCCTT
GACAGATATAAATTAACACTGTAAAGAGTTATAACTTGCTTGATAGTATTGAATTTCT
C
TGAGAAATTACTTCTTTCTTGACCTTATAACTTGACATTGTCAGATTTAATTTT

Sequence 269

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATAGTGGAGGCACTGAAAGACCA
GCAGAGGCATAAGGTTTCGGGAAGAGGTTGTTACCGTGGGCAACTCTGTCAACGAAGGCTT
GAACCAACCTCGAGCGGCCGCCGGGCAGGTACAGATGCACAGGAGGCCATAGGGTTTAG
GCAAAGGGGAGCACAAAAGTTGAAGATGAGGCGCTGCCACCAATGCTGGGACTTCAGGCC
AGGGGCAGGAGCTGAGGAAGCCACAAGGGAGGACATTTTCTGCAGTTGCTGAACCAGTAG
CAACCAGGTCCTGAGAAAGCCCTCTCTTGTTGGAAGAATAACAGCCAGGAGGAAAAGCTTT
TCATTCTGCAAAGCTGGGGCAGAAAGTTCTTNTTTGAATCCCGGTACCTCGGCCCGNTC
TAGAACTANTGGATTCCCCCGGGCTGGAGGAATTC

Sequence 270

GTCTTCGGNTTTTCTTCTTTTCCAGGGCCTCCAANCCCTCGTCAGCCTCCCGC

Sequence 271

GGGAGGCGNNAGCGAAGGAAGAGANTNTTCGANGACGAAGAAAACCCAGCGCCCCCAGC
NACCT

Sequence 272

TTGGAGCTCCCCGCGGTGGCGGCCGAGTCCCACAGTTAGCTGCAGCAAAACGCAGGCTGC

Table 1

CTCAGGGAAAGGAGCCTGGGTTGATTAACCTTGTGTGTCAATGTCCCACCCGTCCCAGGTA
ACATTTTGCCCCCTGAGGTCCGGGGTAATTTAATGGCTGCTGGACAAAACCTCCAAAGTT
CTTGAAAGATCAGAAATGATAGCTACCTGGAGTCCAGCTGTACGGCACTTGGCGTAAAGC
CGCTTCCCTCAAGAGTAACATACTTCCCATGCACAAGATGATTAATACAGATCTTAG
CAGAATCTTGAAAAGCCCAGGAGATCCAAAGAGCCCTTCGAGCACCACGCAAGAAGATCC
ATCGCAGAGTCCTAAAGAAGAACCCACTGAAAACTTGAGAATCATGTTGAAGCTAAACC
CATATTGCAAAGACCATGCGCCGGAACACCACTTCTCGCCAGGCCAGGAATCACAAAGCTC
CGGGTGGATAAGGCAGCTGCTGCANCAAGGCACTACAAGCCCAATCAATGAGAAGGCCG
GCGGTTGCAGGCAAGAAGCCCTGTGGTAGGTAANAAGGG

Sequence 273

TNTTAGGGNCAACACGGCCCCAGCCCGCNCNCCAGNCNNGCGAANGATTTTTTCAGGG
NGACAAAACCCAGGNCACCCACCTGCCCG

Sequence 274

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGCGTCGATGCTATGCGCTCAGTTC
TAGTCAGAATAATCTTGCTCATCTCCAGCTCCCCCTGTTCCACCAAGGCAGAAATCAAG
CCCTCATCTGCCAAACTACCACCAAAGACTTACAAACGGGAGCTTTCGCACCCCCCATT
GTACGCGGGGGAGGAGCCTGAGGAAGAGGGCGGCGACCGTGGTGGTGAATGAGCGGAGCC
CGGTGACAGGATGTTGGTGGTATTAGGAGATCTGCACATCCACACCGGTGCAACAG
TTTGCCAGCTAAATTCAAAAACCTCCTGGTGCCAGGAAAAATTCAGCACATTCTCTGCAC
AGGAAACCTTTGCA

Sequence 275

CAGCGAGCACGCGTNTTCCGCAACCCGAAACCNCTTACAGGAGGTTTAAACNCANCCC
AACGGGGAGAGNGGGGGAAACATGANGACAGANNNGGGGAANGAAAATGGNACCTCGG
CCGCTCTAGAACTA

Sequence 276

AGGTACGTTCTATTCTGCTCCTATTAGGTCCTTCTCACCGCACCGGCCCTCGGTGATT
ACGCCTCTCCAGTTCTGCTGGGGACGTTCTAGCCTCGCCCCANCCGCGTCGATCTTTATG
TTATACCGTCACTCCAGTGCCCTAATGGAATATCCCTCCACTACTCCCCCTGGTTCTA
CCCGGCTCCAGAGCCTCTCCCGGCCCACTAATTTATTCCCAAATTCTAGGCCCGGCCCA
TCAAGCCCTCCCCGCGTACCTGCCCCG

Sequence 277

GACTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGAGCGGGCCCTACCGTGTGCGCAGAAA
GTGGAGGCGCTTGCCCTCAGCTTGTTGGGAAATCCCGAAGATGGCCAAAGACAACTCANCT
GTTGNTGCTTCAGGGCCTGCTGATTTTGGAAATGTGATTATTGGTTGTTGCGGCAT
TG
CCTGCTGCGGAGTGCATCTTCTTTGTATCTGACCAACACAGCCTCTACCCACTGCTTGAA
GCCACCGACAACGATGACATCTATGGGG

Sequence 278

TTCGCCCCGGGCAGGTACTTTCATCCATAAAGGCCTGCAGCTGTTTCACTGATCCTTGAG
TTCATCCATCACCAACTCCATACAGTCAAAGACTTTGCTCTGGTTCTGTAATATTTCT
G
GTAGTCAGGTTTTGTATTAAGAACTTCATTCTGAGAAGACCCAAGATATGTCATAGGTTT
CACTTTGACCTCAGTAATTTTGGCCTCAGTTGATCCTCTGGACAATATCTCTTTAGCCT
C
CTGCTGGTAGTGAGGCAAGAGCTGATCCCAAGTCTGACGTTCTAAAGAAAACCTTTGTTAT
GTATTCCTTCATCTCAGCCACAGATGCTTCCAAAGAAAAATCTGATGCTTTTCCATTG
A
ATCTTCAAAACATTTTTGNAGAGTTCCATCAGTTTCCAGGCCGTCTGCAAAATGTTTCA
A
TTCTTCAGAAAGAGAAGATGCTTTGGCTCTAAAACCTTCAAGACTGAAGCCCTTAGTGGC

Table 1

CCTTANGAAAGGGT

Sequence 279

CACTGTTCTTTCTTTCTAATAAACTTTCTTTTTCGAACCTATACTGTCTTCTGTAAATT
CTTCTTACTACCCTATGACCCGTGAGCCAACCACTTTCCGATGCCAGGGTTCTGACACCT
CACCTGGCATAATATAAAGTGTTTTTTTTTATACCCTTCCACTTGGAAGACTACAG

A

GGAATCTTGCNCTGCATAGTTCAAACATAAAAGAGAAGAGTTAATTACCTGAAAAGCAAG
AGAAAACAAGAAGGGGTAAATTTTGAACCAAGGGAAATCATTTAAGAAGTGTCTGGTATT
TTTCAAATTTCTGTCAGTTGTTACATTTGTCATAAGTAAATGTTTAGGAATAAAGGATG

G

AGACATGCTTATTTTATTTAACTCCCCCAAATTAATAANNAAAAAAAAAAAAAAAAAAAAA
AGTCCCTGCCCGGGCGGCCGCTCGAGATAAC

Sequence 280

CCGCGGTGGCGGCCGGAGTNATGCCATCTGCAGGTTTTGTGATCTGCAATGATTCTTCCC
TTCGAGGTCAGCCCATTATCTTTAATCCTGACTTTTTTGTGGAGAACTCCGACATGA

GA

AACCTGAGATTTTCACTGAGTTGGTGGTCAGCAATATCACAAGGCTCATCGATTTACCTG
GAACTGAGTTGGCTCAGCTGATGGGGGAAGTGGACCTTAAGTTGCCTGGCGGGGCTGGCC
CAGCATCAGGATTCTTCCGGTCTCTCATGTCTCTCAAGCGAAAGGAAAAAGGAGTGATAC
TTGGGTCCCCACTGACGGAGGAAGGCATTGCCAGATATACCACTGATTGAGTATCTAC
ACAAAAACTTGCGAGTAGAGGGTTTGTAGAGTACCT

Sequence 281

GGGGGGGAGACATGTGGAGGTCCCAGCAGAGGCCAACCTGTGTCTTTCATCTCCCTGGGA
AGGGTGCCCCCGAAGTGAAAGAGATGGCCTGGTGAAAGCCTGGGAGAATGAATAAACAG
ACTAGGGTGAAATCCATACAATGGGAATGGTAGCAGACAATAAAAGAAAATGAACTATT
GATGCCCCCTACTGCACAGCAGAAGCTCTGAATCGTGTTCCTGAATGAAAGAAAGTCAGAG
ATGAAAAGATGGGCCAGGAGTCCAGTTTCTGGAAGGCCAAGAATCGAAGTAGCAAGCTGC
AAGCCGTTTTCCAGACAAGCNGNGATGTGGGGATGCCACAAGAATTCAGGACTGGAGGGG

Sequence 282

CGCGGTGGCGGCCGAGGTACTTNTNACTGCCAGAGGCTGTGACGNTGTGTATTGAGAG
CAGCCTTNCCTGCANTGATNCCATCCCGCAGGAATCNAANTTCTCCCTNGATACNGNGCA
CTCTGCCTGTCTTCCACNTTCCCTTTCNCATTTGCANTACACNGTTCACCACNCT

GC

CCTTAAGGCTTGAAACTCACNCCACCTTCAAGCNTCCCATGGTTCTCTGCCACTCATGG
GTCNNGGNAACCAGGGTGGACAAGGGGGCCAGAATCAAAGNCGTTCTTTCACCCCCACCC
ATGGGCCAAGGGGAATGGGGGCCCCAGNNNGGGTTCCCCAAAGGCANCAAGNAAAAANNA
ACTTGGANACTTGGAAGTGGANGGGCCATTGGNAGGCAAGNCCTNGAAAANGCCANAAAA
AGGGGAGGGGNCNGNAACCACCNCAAAAAAGGTTTGGANGGCCAGNAAAAGGGANANNGG
GCCCCAGGGGAAAAAACCTTTTGGGCCCATTTTTTTTCCAATTTCCAATTGGGCCT

TG

GGCCANTAATTTCAAAGGGGAAGGAATTANCCTTGGGNAAAGGGGNTNGGGGGGGG

Sequence 283

TGGCNGCCGAGGTACAGNATTGGAATGGATCTGTCTTTGGTAAAGATCAGCCTATAATT
CTTGCTGTGGATATCACCCCATGATGGGTGTCCTGGACGGTGTCTAATGGAAGT
CAAGACTGTGTCTTCCCTCCTGAAAAGATGTCATCGCCNACCAGATATAAGAAAGACG
GTTTGCCCTTTTCAAAAAGACCCTGGGAATGGTGGGCCCATTTCTTGGTNGGGNCTTCC
CAATGGCNCAAGNAAAGGGGAAANGGGCNATTGTGAAGAAGGAANANAGTATTTTTACC
TNGAAAAAGGCCATAAATGGTGNANANAAATCTTTCCANAAATCCNCAAGNGNGGTGG
CANGCCCTNTAGTANTAAANTANCGNCCCAAAGGAAAGGNTCANGTTTAAAAGGGGTT
TATTTTGTGTGTTNGGGGTAAAATCNCAAGCCCCAAATACCCCAAACCTGNCCTTGGAA

Table 1

CTTGGCTTTTCNCAAAGGTTNAGGCTTTCNATTCTCAATTCCCCCCCCAAAAGGGGAGG
AAACCNNTTCC
Sequence 284
GTGGCGGCCCGCCCGGGCAGGTACGCGGGGGCTCTAAGCTGCAGCAAGAGAACTGTGTGT
GAGGGGAAGAGGCCCTGTTTCGCTGTGCGGTCTCTAGTTCTTGACGCTCTTTAAGAGTCT
GCACTGGAGGAACTCCTGCCATTACCAGCCTNCCCTTTCTTTGCCAGAAAGGGGAGGGGG
GGAAAAACAATNACAATTTTATTTCCATTGGCCCAAGTNCCTGTNTNGCCAATTGNCAAG
TGCTTTTTTTTGGGCCNTTNTCTTACCCCTTGCCAAACCAAGAAAACNAAATNTTG
N
CNACNCAAANCTTCCCTTTAGTTAGNCGCGGAATNTCNCCGCCCCCACAAGTAAGAAAGT
TCNCNTGGNNAAGNCCCACCAAGANCCTTTTTTTTTGGCTTTTTTGCCAATTTGGTGA
AG
GGAAG

Sequence 285

TGGCGGCCGAGGTACTAGGTCCCAAATGTTTCAACCGATTTTACCCTATGTTTTCAAGGG
TATTATAGAAGGGGAGAGGTATCCTGTAGTGATGTCCACGTATCTGGAGTTATGGGTCCG
AGTTCTACTACAAAACACTAGTTTTTTTTCTTCACTTACTTAATGAGATGGCCCATAAATT
TAATCAGGAGATGGACCAGCTTTTGGGAAATATGATTGAAATGTGGGTTTGATCGAATGG
ACAACATTACCCAGCCTGAAAGAAGAAAACCTTCAGCTTTGGCTTTGCTCTCTCTCTGC
CATCTGATAATAGTGTATCCAAGATAAATTCTGTGGGATTATAAACATTTAGTAGAA
G
GCCTGCATGATGTCATGACGGGAAGATCCTGAAACAGGAACTTATAAAGACTGTATGTT
GGATGGTCTCATCTTGAGGGAACCCAAAAGTAACCAGGAAGATGAATGAAACCACCCAC
Sequence 286

GCGGCCGAGTACCCGATAGAACATGGCATCATCACCACCTGGGACGACATGAAAAAGATC
TGGCACCACTCTTTCTACAATGAGCTTCGTGTTGCCCCTGAAGAGCATCCCACCCTGCTC
ACGGAGGCACCCCTGAACCCCAANGGCCCAACCCGGGANGAAAAATGAACCTCAAATTA
TTGTTTTTGGAGAACTTTTCAAATTGGTCCCCAGGCCCATGGTATTGTGGGCCTTATC
CC
AAGGCCGGGTNGCCTGGTCTTCTCTATTGCCCTTNTGTTGGGACCGCCACAAACNTGGGG
CAATTNGNTGGCCNTGGGAACCTCTTGGGAAAGAAATNGGGTNGGTCCAACCCCAACAA
AATGGNTCCCCCAATTCTTATTGGAAGGGGGGCCTTAATTGGCCCCCTTTTGGCCCCC
CAAATGGCCCCANTCAATTGGNCCGTTTNTTGGGGAATNCCCTGGGCCTTGGGGCCCCGGG
AAGNAATCTTCAACCTTGGAACCTTAACCCCTTCAATNGGAAAAGAATCCCTTGGACCT
TGGAAGGCCGGTGGGGCCTAATTTCCCTTTTCGGNTTTAACNTAACCTTGGCTTGGNAA
GCCGGTTGGAANGNAAATTTGGTNCCCGGGGAACCATTTCAAAGGGGGAGGAAAAAANC
TNGGNGGTTTTAATTGTTAAAGCCCTTCTTGGGGNACTTTTTTGAAAAAA
Sequence 287

CTCCCCGCGGTGGCGGCCGAAAACCTGATCAGACTGTCTCAGATCNAGGAAAAGATGGCCA
GAGAGAAGCTGGAAGAAATAGATTGGGTGACATTTGGGGTTATATTGAAGAAGGTTACGC
CACAGAGTGTGAATAGTGGAAAAACCTTCAGCATATGGAACTGAATGATCTTCNGACC
TGACACANTGTGTGTCCTTGNTCTTATTGGAGAAGTTCACANAGCGCTCTGGAAGACGG
AGCAGGGGACTGTGTATCGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTCA
GAGGAGGTGTGTNTATCTATCGATCATCCTCAGAAGGTCTTAATTATGGGTGAAGCTCTT
GACCTGGGAACCTGTAAAGCCAAGAAGAAGATGGAGAAGCCGTGCACGCAGACTGTGAA
TTTTGCGTGACTGTTGAGTACCTCCGGCCGCTCTAGAANTTGGATCCCCCG
Sequence 288

GCCAAACGCTTCCGCAAAGCTCAGTGTCCCATTTGTGGAGCGCCTCACTAACTCCATGATG
ATGCA

S quence 289

Table 1

GGACAGACTGGCTCATNGAAGACATTNACTNTGATGGGACCATTNNANNCNGATAATTTT
TCTCATAACCTGAGAGGAGTNATCCCACGAAGTTTNGAATNTTGTTCCTTAATTGA
T
CGTGAAAAAGAAAAGGCTGGAGCTGGAAAGAGTTTCCTTTGTAAGTGTTCTTTATTGAA
ATCTATAACGAGCAGATATATGATCTACTGGACTCTGCATCGGCTGGA

Sequence 290

TGGCGGCCCGCCCGGCAGGTACGCGGGGCGCGTAGGAGCCTCTCTCCCTACTGCTGCTAC
ACAAAGACCCTGAGACTGACCTGCAGGAACNAAACCATGAAGAGCCTGATCCTTCTTGC
CNTCCTGGCCGCCTTANCGGAAGTAACTTTGTGTTATGAAATCACATGAAAAGCCATTGG
GAAATCTTTATGGAACTTAATCCNCTTTTATTTAAANCCAGGGNAAGNNAATATGT
N
AAAAATCCNCTTTTTTATTANNTCCCCCTCTNCAATCCAAGNANGNATGGGGGAAGCNA
GCNTAAAACCNTNCNNATNANANAGNTNGGGTTTCTAAATAAGNAANCCTTTCTTCTA
AANANGNNCNTNGNGTTCCACCGATATCTTTATATATTNNGGGATTNANCCCCCCTN
TGNNAGNTTATNTACTTTNACNNANGCATTTTTTTTTNNGTGNAAAAAACCCCGC
NTT
AACCNACCCCAANTNGGGGTTTTTATATTGGGGGNANTNACCAAAATGGCCTNNGGCCCT
TNTATNANAAATCNGCGCTTTNNCNTTTATAACNAGGGAAAAAAGCCCCCCCCANNGG
GGGNANNNCCNAAATATNTNTAANATNNTTGGNNGGGGAAAAAAAAAAAAA

Sequence 291

GAGCCCGGGTGGCGGCCCGCGGCAGGTACTTTTTTTTTTTTTTTTTTGGGGGAGTTA
AATAAAATAAGCATGTCTCCATCCTTTATTCTAAACATTTACTTATGACAAATGTANCA
ACTGACAGAAATTTGAAAAATACCAGACACTTCTTAAATGATTTCCCTTGGGTCAAAAT
T
TACCCCTTCTTGTTTTCTCTTGCTTTTCAGGTAATTAACCTTCTCTTTTGTGTTGAAC
TATGCAGTGCAAGATTCTCTGTAGTCTTTCCAAGTGGAAGGGTATAAAAAAACA
CTT
TATATTATGCCAGGTGAGGTGTCAGAACCTGGCATCGGAAAGTGTTGGCTCACGGGTC
ATAGNGTAGTAAGAAGAATTTACCGAAGACAGTATTNGGTTCCGAAAAAGAAAGTTTTA
T

Sequence 292

CGGTGGCGGCGAGGACTTTTTTTTTTTTTTTTTTTTTTNGCTTGTTTTATCTTTT
GGCCTTTTGGTGACTTGGTGCTCCTTGGAGTCACTGGAGTTCTACTTTGAATCCCACT
CT
GACATCAATCGACTGCCTTAATTCCTGGTCCAGCTGCCCCGACCCTGACTCTCTNCCGCTC
TTTTCTCAGGTGCAANGTTTNCCTTAAGATCACGCTGACGTCGGACCCACGGCTGCCGT
ACCTGCCCC

Sequence 293

GTGGCGGCCCGCCCGGCGGACGCGGGGACATTCGAGTGGGGATTAAGAGAAGGAAGGCT
GCCTTGCTGGAGCTGTGTGGTCTTCTCCAAGTGAGAGTCGCAGGCAATAGAACTACTTTG
CTTTTGGAGGAAAAGGAGGAATTCATTTNAGCAAGACACAAAGAAAAGCAGTTTTTTTT
CANGTGCTGACGGCCACCACCATCATCTAAAGAAGATAAACTTGGCAAATGACATGCAN
GTTCTTCAAGGCANAATAATTGCAGAAAATCTTCAAAGGACCCTATCTGCAGATGTTCTG
AATACCTCTGAGAATAGAGATTGATTATTCNACCAGGATACCTAATTCAAGAACTCCAGA
AATCAGGAGACGGAGACATTTTGGTCANGNTTGTCAACATTGGACCAATACA

Sequence 294

GCGGTGGCGGCCCGCCCGGCGGACGCGGGAGGCACATTCTTTTCTACGTGAAGAGTTN
TGTAACCTGAACCTTTGTTTTCAGNNCCGGCTCCAGCCATCCTCGGGTAGCTTGCCAATAG
ATGAATCCCACTCGTTTGACCCATGACGCTCCTTCTTGCATNNCTCCCTCTTCCCC
AC
AGCAGNGCATGTCCACCATACCACCTGAGAGTCTGTGGAATCTAATTTTCTGTNATACTT

Table 1

CTTTCCTTACACTCATTTCCTGTCTTTATTATGATAGTCTAACTTTTTCTCCTCAAAGG
TATAGCTGCCCTTGCTTTCATGAAAACACACTTTCCTATTGTGATTATCAGAGGCCTTT
C

CATATCTCAGCCACTATGCTATGACAGATTTTATAATTAATA

Sequence 295

CNCGCGGTGGCGGCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCCCGAATCC
GGACAATTATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCC
TGCTTTACATCCTTTTGAGGTCCACGAGAATATATAAAGAGCTTTAAATGCTACCAAAC
TGGAACGAGTATTTGCAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCA
ATTGCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGTGATGGTA
GAGGTTAGAATTTGGAATCTAACTCAGCGGAATTGTATCCGACCCT

Sequence 296

CCGCCGGGCAGGTACGCGGGGCTCCCTTGTGAGTAGACTATGCAAAGAAAAAGTGGGCCA
CCATATCTGAAACTACAGTCTATGCTTTGAAGCGCAAAGGGAATAAACATTTAAAGAC
TCCCCCGGGGACCTGGAGGATGGACTTTTCCATGGTGGGCCGGAGCAGCAGCTTACAATG
AAAAATCAGAGACTGGTGCTCTTGAGAAACTATAGTTGGCAAANTCCCATTAACCACA
ATGACTTCAAAATTTTAAAAA

Sequence 297

GCGGCCGCCGGGCAGGTACGCGGGGGGAGGGCTCCGAAGTCTGGTTTTGGCGGGGAATTG
AAACCGCCGCTGAAGCCAACAAGAATTTGAGAACTGTAATACCAAGCCTGAAAGGGAC
CATGGTGC GGCTGTGAGACATAAGAAAGCCAGTCAAATTCACAGTTTGACCACTCTG
ACAGTGATGATGATTTTGTCTGCAACTTGACCTCGGCCGTTCTAGAACTTANTG
GA

TCCCCCGGGCTNGNAGGGAATTTCCANATTTTNAANCCTTTTNCGGANCCCCNCNCCN
CCCCTNAANGGGGGGGGGGNCNCNNGCCCCNCNNTTTTNNNTGGCCCCNTTTTGNNG
GGGGGGNGAATTTANCNNCCCCNCNGNCGGGGNAANAAAAATAGGGGGGNAANNTTTT
TTNTTNGNGGGGGGNAANAAAAATTTTNTCTCCCCCCCCAAAAATAAAAAACNCGNCCC
NCTTCTNTCCCCGNTGGNNGNAAANANTATNGNGGTCCCCCNNGNGGGGGGGGGGAN
ANTTTTTTTTTTNNNNAATTTTTTTT

Sequence 298

GTGGCGGCCGAGGTACTCCCCAGCAAATATTCTTTGTTGGCTTGCTTGACTAGATGAGCT
GCTATAGTAGTCAATCCTGTTAGACTTGGACCATTGTTTGTCTGAAGAACTGGAATCT
GT

CGCTCGCCCTGAGCACTGTATTTATTTCCCTTACTCANTCCCCAGGGGACTTCTTCCAA
GTAAGCCGACANACTTCTTGCNCGCCCCGCNCGCNCANTCTTTCCCGGNCCGGCTTCTT
AGTAACTTAGGTTGGGAATCNCNCNCGTGGGCCTGGCNAGGGGAAATTTTCGGAATTA
TTCAAAGGCCCTTATTTCNGAATAACCCGTTTCNNACCCCTTCNCAAGNNGGGGGGGGG
CACCCCGNGTTAACCCCAAGGACNTNTNTTGGTGTNCCCCCTTTTAAAGTTGGAAGGG
GGGTTTTAAAAATATTGGCCGACCGNCCTTTGGGTCCGNTTANAAATCCAATTGGGGG
GNTCAATTAAGGNCCTTGNTTTATTCCTTNGTNGTTGGAAAAATTTNGTTNTAAAT
T

CNCCGNCNTTTCAACNAAAAATTTTCCCNANNCAACCAAAACCNAATTAACCNGAAGNCC
CCCGNNGGGAAGNCCAATTAATAAAAAANNTTGGTTAAAAAANGGCCCTTGNGGGG

Sequence 299

TGGCGGCCGAGGTACTTCTGTCTTCCAGTTTCCACTTCAAACCTCTATCTTCTCCAA
AT

TGTTTATCCTACCACTCCCAATTAATCTTCCATTTTCGTCTGCGTTAGTAAATGCG
T

TAACTAGGCTTTAAATGACGCAATCTCCCTGCGTCATGGGATTTTCAAAGGGTCTTT
TT

AATTCACCCCTCCGGGTTTTAAATCCTCTTTTTTAAAAAGAATCCGTCTTTCAAAAAAT

Table 1

TATNTTTAAATTCACCCTTACCAACCTTTTTAAAAACCTAAAAACCTTTAAAGGCTTGTT
TAAAGGTCCACCCTTTCATTTTTTAAATCTAAAAAGGCCATTTGGCCCCCTTCTAATT
T
GGGNTAATTNAAATTCCGGGGGCCTCTTGTTAGGTACCCTNTTCTCTTCAAATTTTTAT
C
CTTTTTTAAAAATTACCATTTTTTTTTTACCTTCCCATTGAAAGGAAAGGCCCTTNCAT
TCTTCAAACCCCTTCCCGGTTCAATTGGTTTTTTAAGGAAAAACCCCTTTTTTNNAT
TTCTTTTTTCCCCTTTTCCCCTTCCAATGGCCCTTAANCTTTCTTTTCCCTTNAAGGGT
GCCTTCCAATTAATTTTTTTTCTTCTTTAAAAAAAATTCTTTTA

Sequence 300

CGCGGTGGCGCGCGAGGTACTTAAGGTTGACTGGTAATCAGGGTAACTTCTGATACTTAT
CACACAAGATGGTGCCTCAGCATTTAAATAAATGGAGGTAGGGGAGGGCGTGGTGGTAAC
ATACTTTTAAACCAGCGATTGCACAGCAAACCACAATGCAAGGTATTTCTGACTCCCAAG
ATTGCCCGTTTCTTAAAGAGCAATTCTTCTGCAGGCAACAGCAAACCTACCTTTCCTTGC
TAACTGCTTTCAGTAAATCTTGATGGCCTTCGATTCTGGATTGAGACATCTCTTCTCA
C

CCTTCTTTTTTATTGTAGCAATGATCTCAACACGTG

GA

Sequence 301

TCCCCGCGGTGGCGGCCGGAGTGATGCCTCTGCAGTTTTGTGATCTGCAATGATTCTTCC
CTTCGAGGTACGCCCATTATCTTTAATCCTGACTTTTTTGTGGAGAACTCCGACAT
GA
GAAACCTGAGATTTTCACTGAGTTGGTGGTCAGCAATATCACAAGGCTTCATCNGATTTA
CCTGGAAGTGAAGTGGCTCAGCTGATGGGGGAAGTGGACCTTAAGTTGCCTGGCGGGGCT
GGCCAGCATCAGGATTCTTCCGGTCTCTCATGTCTCTCAAGCGAAAGGAAAAAGGAGTG
ATATTTGGGTCCCACTGACGGAGGAAGGCATTGCCAGATATACCAACTGATTGAGTAT
CTACAAAAAACTTGCGAGTAGAGGGTTTGTGTTAGAGTACCTCGGCCCGCTCTAGAACTA
GGTGGATCCC

Sequence 302

TTGGAGCACCCCGCGNGGCGTTTTGGGACGCNCGAACNGCAATGCTTCAGGACCCACA
GGAGCGACTCTTTAAAGGGACCACAAAANCCGCACAGAGCTGCAAACAACTATACATGAT
ATAATATTAGAATGTGTGNACCTGCCCCG

Sequence 303

GNGGCGTTTTAGGGCGNAACGGCCCCCATCATGGCGGACCCTAGAGAAAGGCTCTTAGG
GGGACCNAAACCCGNNGCCGAACACAAGGAGANCGACGGCCGCTCTTNAACCAGNNGGAG
C

Sequence 304

TCGCCCCGAGCTTTCTTGTCCATCTTCTCCCGCTGCTGAAATTTAGTTGCGGGCGCTG
TCACCTCAGGACCCCTCCCCCGCGTACGCTGGATAGCCTCCAGGCCAGAAAGAGAGAGT
AGCGCGAGCACAGCTAAGGCCACGGAGCGAGACATCTCGGCCCGAATGCTGTCAGCTTCA
GGAATCCCCGCGTACCTGCCCCG

Sequence 305

NTTAAGAGCAAAGGCTCATGTTTGCCAAGTCTGTCTTTTGTAAACAAAAACCCAGCAGC
TTTATCAAGCAGAATTCACCTGTATTTCTTAACCTGCCAGAGCTGAGTCTCATGGCC
AC
CCTTAGCAGGAGTTGGGGAGGTATTTTAAACAGGCACATTATCATCTCCCCCACCCTAAA
GTGGAGCTATTGCTAATGAAAAAGATACAATGAGATGTTTATGAAATTATCTGTAGCTAT
TAATGTCAGGTTTTTGAAATTTACTGACCTGGAAGAATACTCATAATGCAATGTCAAGT
G

AGAAGCAGGACAAAGAACATTTGCAATACAGTTGTATTTATAAAATTTTGT

Sequence 306

Table 1

NATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAGGCAGCGGAAAGCTCAGCCC
ATGTGAGGTGCCTCCTGCCAATCACAGACTACCTTCCCTGGTCCTGGAGGTTCAAAGAA
TTGCAGGAGGGTAGAAAAGCACCTGGGTGCGGTGCAGACTGCGGAGCGGGCCCTACCGTG
TGCGCAGAAAGAGGAGGCGCTTGCTTCAGCTTGTTGGGAAATCCCGAAGATGGCCAAAGA
CAACTCAACTGTTGTTGCTTCCAGGGCCTGCTGATTTTTGGAAATGTGATTATTGGT
TG

TTGCGGCATTGCCCTGACTGCGGAGTGCATCTTCTTTGTATCTGACCAACACAGCCTCTA
CCCACTGGTTGAAGCCACCGACAACGATGACATCTATGGGGCTGCCTGGATCGGCATAT
Sequence 307

CACCGCGGTGGCGGTTTAGCCCGGCGCNAAATCACCATTATTCCCTTTAGTCACCTCAG
AGGCTTGTTAATGCTTTCTTTGTAATTAGGCTATATCTGGTATCTGTATAATATCTTCA
G

TTCTTCTTTACCAGGGGTCTTACTCTGTTCTGAAACATGGCACCTCAGGCGGCTCCGGCA
GCGCTGGACACAGGAACTCCTGGGTCCCCGACTCCGGCTCTCCTNGACCCCTCTTCGG
TTAACTCCGCTTGTTTCTCTACAAAATGGCGCCGGAGGTCCCCCGGTACCT

Sequence 308

TGGGGNAACCCGCGNGGCGGTCTTGGGNGNAACACGGAAACCAACGAACCGCGGCTGC
ACCAGCNGNCTTTTTTNGGGNGGCCAAAACCCGAGCAGCCGAAANCNGGAACNGCCNCA
GNNGTGTNCCNGCNGAAGAANGNCNANCCAGAGAGGCCAAAGNACCC

Sequence 309

CCCGCGGGGGCTTTNGGGGGCAANCGAACCCNCTTAAAGGNNCNCNTCTAAAAATNT
TTACNNGNAGAAANAAAAACCAACCGCTTTTTANTATCGAGNGTCAGAAACNNTTCAC
AAGATGGNAAAAAAAAAAAAAGAAAAAGAAAAAAACAAAACAAAAAACT
TTACAACCACAGCTAANGCAANNNNNNCCANGGNTCCAGTCAGCTCCAANNCCAAGGGG
NGCAAAGCCCANNNNNNNCCAAGCATCCAAANGANAGAGACAGGCCAGGAAANNCTNTAT
NCTATNGGAGCAGCANNANGCAGGGGCAGCCAAACACAAAGCNCNCAGGACAAAANGGACC
NGCCCGGG

Sequence 310

CACCGNGGACAAGAGCAGGNGGTNCTTGGGGGGNGNAAAACCCGCNCCGCGANGCAAGAG
GCTCNGCACAACCACTACTNTNCAGAAGAGCCGGGNCNGNCCCCGGGAAAAAGAGNGCG
A

Sequence 311

CCTGAGGAAAAGCTCGCACCAGGNGGACGCGGATNNGGTANGGGGGGTAAAAANACCCNCC
CCAACAAGCCGCGGGGCAAAANGNCCNCGTACNTCGGCCGCTCGAGAACTAGCGNACCCN
A

Sequence 312

CCCGCGGTGGCGTTTCCNGGCCAGGCACTTGGAGAAAGTATAGCAGCAAAACAATGCCTAT
TTTTNACAGGAAACAGAACANATACCCAGAAAAATGCCCTGGCAATCATCAATCACAGT
TTTCCAACATCAATAAAGTGTTAACTCCTCATTTGAAAGATGGTGTTCCTGGATTGAA
T
ATTGAAGAATTAATAGAGAACTTCAGTCTGGAATGGTGGTAANGGATCAGATTTGNGAT
GNGAGAATATCTGACATAATGGATGTATATGAAATGAACTATCCACATTAGCTTCCAAA
GAAAGCAGGCTACAAGATCTTTTGAAACAAAACTCTAGCCCTTGACAGGCTGATAGA
CTGATTGCTCAGCATCGCTGTCAAAGAACTCAAG

Sequence 313

CCGGGCAGGCCCTTAGCATTAGATTGAGTTATGTTGCTAGGAGATNTTATTTCATCAGCT
GATCATTAAGCATATGGGGCTTACTTGGCCCCCTATCAATTTGCGTCAAAATAAATTAA
TTGTAGACCTGTCTTGTTTTATGAAAAAGCAATGTGATAGTCTTTAAATTTATCTTTCTA
AACAAAGACACAAGTTTACACATTACCCAGCACAGTAACCCCTCTTGGTATTGTTTACCTA
AAAGGAAGAAGGTAGGAAAACTGATATAAGTAGAGAGNTTATTTGGG

Table 1

Sequence 314

GNTTGGAGCTCCCCGCGGTGGCGGTGCGAGGTACGCGGGGGTCTGGAGGTTCAAAGAAT
TGCAGGAGGGTAGNAAAGCACCTGGGTGCGGTGCAGACTGCGGAGCGGGCCCTACCGTGT
GCGCAGAAAGAGGAGGCGCTCAGGAATGCATGAATTGATTAATTAATGTCGAGAGCTGT
AGATGGCTTTTCTCAAGGTGCTTCAAGTGCAGAAGCCCAAGTGATTGACCCACACACTTA
CCTTTGTGTTCTTCCAGAAAATCCTCAGGGAGTGCCTTCAGCTTGTGGGAAATCCCGAA
GATGGCCAAAGACAACCTCAACTGTTCTGTTCTCCAGGGCCTGCTGATTTTTGGAAATGT
GATTATTGGTTGTTGCGGCATTGCCCT

Sequence 315

CTAAGCATATGGGGCTTACTTGGCCCCCTATCAATTTGCNGTCAAAATAAATTAATT
GT
AGACCTGTCTTGTGTTTATGAAAAAGCAATGNGATAGTCTTTAAATTTATCTTTCTAAACA
AGACACAAGTTTACACATTACCCANTTACA⁵NAACCCCTCTTGGTATTGTTTACCTAAA
A
GGAAGAAGTGTAGGAAAAACNGATATAAGTAGAGAGTTTATTTGGGCCAAGCATGAGGGT
TACAACCCAACTGTATGGAGACAAGTTGGCCTGAACAATACACATTCTTATTAGCAACAG
NTATAAGTAGGNTTTCAAAGAAAAAGAAGAGGCAGNTCCTAA

Sequence 316

TCGNCCGGGCAGGTACAGAGACCTNCTTACTTACCCCCCTTNTCCTTCGGCTGGAGCTCG
GCGAGCGAGAGGCGGCCGCTGGCGTTGGAGAGCGACGGCGGGCCCCCGCGTAAGCAGTGGN
AACAACNCAGAGTAACGCGGGAATGAAGAATNTTAGCGGGTGCACCCAGTTTNCACCAT
GATTAAGGGTNTTACGGAATAAAGGATGATGCTTCCTTAGTGTTCTTGCATTTTG
GG
ACAGAATGGAATCTCAGACCTTGTGAAGGTGACTCTGACTTCTGAGGAAGAGGCCCGTTT
GAAGAAGAGTGCAGATNCACTTTGGGGGATCCAAAAGGA

Sequence 317

TTTCGCCCCGGGCAGGTACTTGGAGAAAGTATAGCAGCAAACAATGCCTATAGACAACAGG
AAACAGAACATATACCCAGAAAAATGCCCTGGCAATCATCAATCACAGTTTTCCAACAT
CAATAAAGTGTTTAACTCCTCATTTGAAAGATGGTGTTCTGATTGAATATTGAAGAA
T
TAATAGAGAACTTCAGTCTGGAATGGTGNTNAAGGATCAGATTTGTGATGTGAGAATAT
CTGACATAATGGATGTATATGAAATGAACTATCCACATTAGCTTCAAAGAAAGCAGGC
TACAAGATCTTTTGGAAACAAAACTCTAGCCCTTGACACAGGCTGATAGACTGATTGCTC
AGCATCGCTGTCAAAGAACTCAAGCTGAAACAGA

Sequence 318

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTATTGATGTTGAAGATGAGAAATCT
CCTCAGACTGAAAGTTGCACTGACAGTGGAGCAGAAAAATGAAGGTAGTTGTACAGTGAT
CAGATGAGCAACGATTTCTCCAATGATGATGGTGTTGATGAAGGAATCTGTCTTGAAACC
AATAGTGGAACCTGAAAAGATCTCAAAATCTGGACTTGAAAAGAATTCTTGATCTATGAA
CTTTTCTCTGTTATGGTTCACTTCTGGGAGCGCTGCTGGTGGTCATTATTATGCATGTAT
A
AAGTCATTCAGTGATGAGCAGTGGTACGGGTGGGAATAGCACTACACTGTTTCATCTAGCC
TTGTAGAATAAGTCCCACTGAACTGATATTCTGCAGAATCTTCACTGTTAT
AT

Sequence 319

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTCAAN
G
TTCAGTTTCCTTTAATGACCCCCATCTCCCTGAAGGGCAGGTGCAGGCAGCTAGGTGATG
GCAAGAGATGTTCACTTGAAGATCTTGCCCTGATTGAAGGCTTGCCACATGCTGGAAG
GCCCCCTCCAGGAAAAGTACCAGACATCAGCTGCCTCTTCTTCATTTTCAGCCAAAGAA
AGGGCACGTTCAAATGAGGTCAGAGTCATATCATACTGCTGGGCATAGAAGCAACACAGC

Table I

CCCAGATTGTTAAAAAGCTGGCCGTTATAAATGCCCATCTGCAGCAGCCGCCTGTAAAC
CGGAGAGCTATTTCTGGCTGATCAGAATAGAAGTGGTTG

Sequence 320

ACCCNCAGGAGACGCTCGNAGCCCCGCGCTNNTCCGGGGNCAGAAAAACCAAGAAGCG
GCTCACGCCCTCCAGAGCCACATCATNTNTGGNCGAAANAGAAGCCAGACNAGAGGAAG
GNGNAGGAGGCCNGCAGGNACC

Sequence 321

CAAGCGGAGNNAACCGAAGAGGGGNACTTGGGGGGCCAAAAACCCGGACCCAGGAGNNN
CCNGNGNCCAGCGCNGCCGGTTCGCGCNGAGGGGGGCACNCCCCGCCAAGGCNNGGAGNG
CAGCGGCACAANCCNCGNCACNGCAGCCNNGANANNCCNGGNCNCAGGNGACCAGCACCC
NTGCTNTTTNTACNGGGAAGNNGCNAAGCNACCNGNCAANANAGCANACAAANNGAAACN
GGGGGNGGNGAAGGANNCNAGAAGNNGGANGCCAGGAAANGGGANGAAGACCAANGGGC
CANGNNNCAGAACAGAGAAGACCCCNNGNAA

Sequence 322

CTCCCGNGACGAAACACAANNGNTTCTTNCGGGGGACAGAAAACCCAGACCCAGCTNCA
GGGACAGCCTGGACTACTTTNTTTTCACACAAACAACTCCCCGCGNANNCTCCTGGGC
CA

Sequence 323

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTCAATACTTAAAAATAGTCTTCC
ACAAAAATACTTTATTTCTGATCTATACAAATTTTCAGAAGGTTATTTCTTTATCATTG
CTAAACTGATGACTTACCATGGGATGGGGTCCAGTCCCATGACCTTGGGGTACTTTTTTT
TTTTTTTTTTTTTTTGGAAAGCTCTGCCATAAACTTCTAGCGTGTGCCAATGGTCACC
T

GCCACACTCGCACCAGGTTGTCCGTGTAGCCAGCAAACAGAGTCTGGCCATCAGCAGACC
AGGCCAGGGAGGTGCACTGGGGTGGTTCTGCCTTGCTGCTGGTACCTGCCCCG

Sequence 324

GGTGGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTAANGGGGACGT
TA

AATAAAATAAGCATGTCTCCATCCTTTATTCTAAACATTTACTTATGACAAATGTAACA
ACTGACAGAAATTTGAAAAATACCAGACACTTCTTAAATGATTTCCCTTGGTTCAAAAT
T

TACCCCTTCTTGTTTTCTTTGCTTTTCAGGTAATTAACCTTCTCTTTTT

Sequence 325

ATTGAGCTCCCCGCGGTGGCGGCCGAGGTACCATCAAGTTAAAAGCAGAAGATGCTTCTG
GTAGAGAGCATTTAATCACTCTCAAGTTGAAGGCAAAGTATCCTGCAGAATCACCAGATT
ATTTGTGGATTTTCTGTTCCATTTGTGCCTCCTGGACACCTCAGGTAAATTCTCCT
C

AGAGCTCCTTAATAAGCATTTATAGTCAGTTTTTGGCAGCAATAGAATCACTAAAGGCAT
TCTGGGATGTTATGGATGAAATCGATGNGAAGACCTGG

Sequence 326

CCGCGGTGGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTAAGGGGA
GT

TAAATAAAATAACGCATGTCTCCATCCTTTATTCCTAAACATTTACTTATGACAAATGTA
ACAACTGACAGAAATTTGAAAAATACCAGACACTTCTTAAATGATTTCCCTTGGTTCAAA
ATTTACCCCTTCTTGTTTTCTTTGCTTTTCAGGTAATTAACCTTCTNTTTTTAGTTTG
AACTATGCAGTGCAAGATTCTNTGTAGTCTTTCCAAGTGAAGGGTATAAAAAAACA
CTTTATATTATGCCAGGTGAGGNGTCAGAACCCTGGCATCGGAAA

Sequence 327

GCTCACCGCGGTGGCGGCCGAGGTACTTAAACCAAATAAAAAAGTGACATTTGAATTTCT
TTTAAAGGATTTCCGAGCTCACAGTCAGCTTGCAGCCATTCTCCCGCGTACCAGCACA

Table I

AACCGGGCCAGCCTCCTAACTGCTCATTTACTGGGCGTCTACCCGGGAATCCGGGGTCC
CTGACCGA

Sequence 328

CGCGTCCGCCATCTCAGTGTACAGACACTCCTGGGTTTGAATTTTGTGTTCTCT
GT
CTCTTTGATTTCTGGAAGACGACACCATGACAATTTCAAAGAAAATAGAACAAAATGAA
GGAAAAAGAGGCTCTGTCTTAGCACATTCTGTGACCAGCCTGCTGTCTGTGGCGTGCCC
TCCTGGCCCGGCTTGGCACATGTTTCGNTTTGTGGTTGTTGCCTGGACAGGCAACTCTG
CAGGGCTGCTTCTCTACGCATCCCTTTGCCTGCCTGCCTGTGCCAGGGGTTGTCAAGGGC
TTTTGGGTCAGAGTGGGCACCCCTTTCTCAAGGCTCCCTGCAACAGCTGGCCTGTCCCT
GGTGGGGCT

Sequence 329

NAACTTTACAGGATGGCATTTAATACAGATATTTTCGTATTTCCCCCACTGCTTTTTATTT
GTACAGCATCATTAAACACTAAGCTCAGTTAAGGAGCCATCANCAACACTGAAGAGATCA
GTAGTAAGAATTCCATTTTCCCTCATCAGTGAAGACACCACAAATTGAAACTCATACTA
TATTTCTAAGCCTGCATTTTCACTGATGCATAATTTTTCTTATTAAATATTTAAAGAGAC
AGTNTTTTCTATGGGCCATCNTCCAAAAACCTGCTATGNACCATNCAACTTAGGTTCT
TA
CNTTTCCTGCCTTAAATTTNTAATGGAGNAANGGGTATTTCTTTTCAATTTTTAAATTT
GCATTTTTTGGGGGAATTATACCTTCCACCAATCTTTTGTANTATTTTTCTTTGG
A

CCTTAAATCATGAATTTTTTCAAATTAANAAGGTTNNAAGNTTTAA

Sequence 330

AGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGATNGTTCACTCACTTTCAAAGCCAGCT
GAAGGAAAGAGGAAGTGCTAGAGAGAGCCCCCTTCAGTGTGCTTCTGACTTTTACGGACT
TGGCTTGTTAGAAGGCTGAAAGATCGAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTT
TTTTTTGGCTTTCTTTGCTCCTTTCTTATGATCAGCCACATTTCTTCGACCTCCTTCTC
CTTCATCCTCAGAATCTGAGAATTCTTCATCACAAAGCTATCCGCTTGTCTGATGCTCG
AA

TAGAAATTCTCTTGTCTGGATCTTCTCCATCTTCATCTCCACTGTCTTCATGAACAGCA

T

CTTCTGGAATAGCCTGCATCTGGACACCCAGGTGCATGAGGTAACATGCGCAAATTTTCA
AACAAACCGCTGGTTTATCTTTT

Sequence 331

CTNCCGCGGTGGCGGCCGAGGTACTAGCAGTTGCCAATGAAGGAGGCTTTGTTTCGATTGT
ATAACACACGAATCACAAAGTTTCAGAAAGAAGTGCTTCAAAGAATGGATGGCTCACTGG
AATGCCGTCTTTGACCTGGCCTGGGTTCTGGTGAACCTTAACTTGTTACAGCAGCAGGT
GATCAAACAGCCAAATTTTGGGACGTAAAAGCTGGTGAGCTGATTGGAACATGCAAAGGT
CATCAATGCAGCCTCAAGTCAGTTGCCTTTCTAAGTTTGAGAAAGCTGTATTCTGTA
CC
TGCCCG

Sequence 332

CCGCGGTGGCGGCCGCGCCGGGCAGGTACCATCTGACTTGGCAATGTAATGACACACACGT
TAGTGTGGGGCACAAACGTGGAATATTAGGAGAGAGCTGGTTCCAGCACCAATCCAGAG
TCACTCGGGGAAGGAGGTATGGTGGCAACACTTTATGCTTAATATTCAATTCTGCTCCAG
TAGAACATGGTACCT

Sequence 333

CGCGGTGGCGGCCGNTCGGGCAGGTACGCGGGGACTCTGAACGTGCTAAAATGGGAAGGG
AGGCGGTGTTTTGCTGATCTGTTAAATCTTAGTGAAGTTTCCTTGATTTCAGTGGCT
G
CTGTTGTTTGAGTTTGGTTTGGAGCAAACTGAGGTAGTCCTAACATTTCTGGGACTGAA

Table I

TCCAGGCANGAAAAAAAAAAAAAAAAAAAAAGGTACCT

Sequence 334

CCCCGCGGTGGCGGCCGAGTTTGATTCTTGCAGTCCTGAGCGATGGAGCCCGGGGGTGC
CTGGTTATTGTCCGCTTTCTCTCTCAGATGCTTGGCTTGTTTTCAAGAGAACCTTTT
C
GATATTGCTCCATCGATTGGATCCAGTCCTTGTTTCAGAAAATTGTTTCAAGGCA
CT
TAAGGCTGCCTGAAAGCCTTGAATCCTTGCTAAATATCCAGTTGTTTTGAAGGTTGT
AC
CTCGGCCGCTCTAGAACTAG

Sequence 335

GCTCNCCGCGGTGGCGGCCGCGGCCGAGGTACTTGACTGCTAACAACTTTCAAATTCTT
CTACTTACTCCCTCTTCTTCAGCTTCACATCTGGGAAACTGATAGGGAAGCCTAGGTAG
GCCTACCTTTGGTGCCAGAGGGAAGCTCAATCCATGCAAGCCCCAGATAATATATGAGAA
CCTCCCCAACCTTACCCTACACCCCTCACCTCCCAATCCAAGCCAGTCTCCTTTCCCTGC
TTTCTCAAACCATGTTTGGACCTGCTTGGAAGCTCCCTCTGCTCTCCCTAGAAAGCTT
CA
TTATGTGAGTGATACATCTTTTCATATCTTCTTGGTGTGTGTGTGTGGTATCATCAGCC
T
CAACATCTGAAGCAAATGTTGGGTGGGGGGGTACCTCGGCCGCTCTAGAACTAGGTGGAT
C

Sequence 336

CTCCCCGCGGTGGCGGCCGCGGCCGAGGTACTCATGAAGGAGATGGCCCTTTGGGAGC
AACCAGAGAATCACTGAGATCCCAATGGAACAGGAGGTTTCAGCCAGAGGAACCGACTTT
TAAGGGATCACAGAGCTCACACCAAGACCAGGGGAACAGTCAGAAGCCTGGCTTGCTCC
TCAGGCTCCCAGGAACCTGCCTCAAAACACAGGTCTCCACGACCAGGAGACAGGTGCTGT
GGTCTGGACAGCTGGGCCCCAGGGACCAGCCATGCGTGACAACAGAGCTGTATCCCTCTG
TCAGCAAGAATGGGATGTGCCAGGCCCTGCACAAAGGGCCCTCTACAGGGGGTGCCACC
CAGAGGAAGGGACAGTCACGTCTCGCTGGCAACAGGGTGTGGCCCTGGGGCTATTGAAGA
GACCAAGACGCTCCTGGCTATTTTTTAAGTAGTTCTCAATTTTTATGGGNAAACTNCA
A

GACCTTNTTCAGCCAGNAACAGCCCCAGATTCTTACAGGGGCCATTGGGCGGAAGGGACT
CTTGGGAGCCAANGGTTTTTTT

Sequence 337

CCGCGGTGGCGGCCGAGGTACGCGGGATAATCAAGGTGTACATCCCGGTGGCTGGACATG
CCCTCTTGGGCTTGGCAGATGCCAGTGGATCCATACTACTCCGCTGGTGGAATCTG
AGAAGAGCCACGTGCTGGAGCCATTGTCCAGCCTTGGCCTGGAGGAGCAGTGTCTGGCTT
TGTCCTTAGATTGGTCCACTGGGAAACTGGAAGGGCCGGGGACCAGCCCTTGAAGATCA
TAGCAGTGACTCCACAGGGCAGCTCCACCTCCTGATGGTGAATGAGACGAGGCCAGGC
TGCAGAAAGTGGCCTCATGGCAGGCACATCAATTTCGAGGCCTGGATTGCCGCTTCAATT
ACTGGCATCCAGAAATTGTGATTACAGGGGGCGACGATGGCCTTCTGAGGGGCTGGGAC
ACCCAGGGTACCTGCCCCGGGCGGGC

Sequence 338

NAAAACNCCCCCGGGATAGAAGNNATTTTTNTCAGGGCACANANTTAGAANCCAGNNG
GNTTNTANACCAACTGGCAACATCAAGAANGAGCGGGGGGGGAAAAANTGACAGGGA
CGGGGAGCGGGCNCACAAGNGGCAGGGAAGGGAGACNCCACCNGNGGGGGGNCCTGGGGG
CCCNAAACCGNACAAAGGGGNGGNACACTGGCCGCGGGNGCCGGGACGGAANNGAAGN
AANNTAAGAAGGGGGANCNCCCCCGGGGGGTGNAAGGGAAAANGGCGAANAANCAANGC
NCAAAANCNGAAANNCCCCGGGNNAACCCNCGAAGGGGNGGGGGNCCCGGGGAACC
CCAAGGNGGGNTGGAATCCCCAANAAGAGGAGGGGGCGGAAATNCCGGCNGCCGCC

Table 1

AAGGGGGNNGGNAACNAANGGGGGCAAAAAAGGGCCNNGGNNNNCCCCGGGGGGGAAAA
AAAAAGGGGGGNAAAAANCCCGGCCAGGAACAAAAAAGGCAAAAAACAAACCAATNA
ACNNGGGANNCCNNGGGGAGGCCAAAAAAGGGGGGGGAAAAAGCCCCGGGGGGGGGG
GGGGCNCNNAAAAAAGGAAGGGGGGGGGGCCGAAAAACNGCCAAAAAATANAANNNG
GGCGNNTNNGGNNGGCTANCNAANGGGGNACNNGGGGNNCTTTCCAAANNAAGGGGG
AAAA

Sequence 339

CGCGGTNGCGGCCNTCNTTTTTGTTTTTTTTTTTAAAGCTGAAGATTTAGATTTAT
TTGAAACACTTAGTCTAATTTATATTAGGTGCAGAAAAATCACATTCAATAAACCACA
A
TTGTAGAAGAGACAGATAAGTGTGTTTGTACATTTTCACACAAATATAATTTGATNTT
T
AATTAAGGGATGATGAATCNCAACCCCTTGTTAATAAATGATTTNTTCTCTCAGTAANT
A
GCAAGAATCTNTTTGNGGTTNCCGGNCCCTCNNGGGGTTTATTCNNANACNNGGNGCCG
TTTTANAAATTTAAGGGAATTTTTNTTTTTTAAAGNCCNNTNCCCTTCCCTTTTT
TGGGCNATTTCCCCNGNAANAAAAAAATTTTNCNCCCGGGGGNATAACCCCCCCCAG
GGGGTAAAAAACCCCCCNTCTNNGACNNAATTTTTGGGGGGGCNNGGTTTTTTTNG
NAANAANTTTTTTNCNNGNNAAAACCCCNCTTNTAGNGGGGGGGGGGGGGGNGNT
TT

Sequence 340

CACCGCGGTGGCGGCCCGCCCGGGCAGGTACGCGGGGGAGCGGGCCCTACCGTGTGCGCA
GAAAGAGGAGGCGCTTGCCTTCAGCTTGTTGGGAAATCCCGAAGATGGCCAAAGACAACCTC
AAGTGTTCGTTGCTTCCAGGGCCTGCTGATTTTTGGAAATGTGATTATT

Sequence 341

GCGGTGGCGGCCCGCCCGGGCAGGTACCAAGAAGATGCAGTTAAATACTGCCAGTTTTTC
CAAGAAATTTGTAAAGTTGAACATGGCCATCTACTCTTGCCTTAAACCTTTCTCACC
A
CACCCACCTTCCCACATGCATGATATCCAAGGTCGACAGACCTGGATTAGAATCCACTCT
CAAGCTTTATGCAGTGCCTATTGTATTTCTGCATAAGAAAGGGCTGCCTCTAGAACACA
GTAAGTGTATTTGCCAGTAGTGACATTGCCTACATATAGCCAAGTGTATAGTATACCA
ACTTAGTATATTTTCAAGGAGAGCTAAACCACCTTTTGTAAATGTTTGGTTTCTCACTG
N
TATCTTCCTTTCTATAATTAATTTATTTAATCTACAAATTGACATAGGGCTAAAAGCT
TCAATATTTTACAAAATATTAATTAATGTAATTGTTCCCAATTATTAGAACTTTTTTCC
ATTTTTCAAAATGTTTGCCAACTTCACACAAGTGTGAAAAATAGGGCTCT

Sequence 342

CCGCGGTGGCGGCCGAGGTACAGTTTAGTCTGAATGCACTGTCATGAAATTTAACTTT
CATTATAACTGTTTAAAGAACTTACAGCATCTGCTTTACAAATGGTGTAGCTACAT
G
TCGACACAGCATCTTAGCCAGTTTTCTTTTGAAGTTCATCTGATGTCATCTGGAAAC
T
GAGTAGCACATTTGCCTGCTCTGTTGGTGGCCTCACAAGCAAGGCAAAAGCATTATGGCA
ATCTAGGGTTCCAGAATAACCATAAACATTAAGTGTCACTCCTTGGAATGACAGATGT
ATGCAAGTTTAGTTCCCTCAGAGCAATGAAATCCAATGAAATGAACTATCACTTCTCCA
CTTTCCTTGTCTATTTTAATAAGACAAAGAACATCACCATATTAAGTTGAAGTACCT
G
CCCGGGCGGCCGCTCTAGAACTAGGTGGATCCCCGGG

Sequence 343

CCCGCGGTGGCGGCCCGCCCGGGCAGGTACATCAGAGATGCTCACACCATTCTTTGAGTA
GTTTAAAACTCATTTAACCACCTTTTATTCTTTGTATTCAAACCAATCACTGGCAATA

Tabl 1

GCTCTAAGTAGGTCATCAACTCTCCTCCATGTCTTCTTTCTAATTCTGCCACAGACTCA
C
TTCTTCCCGTAAATTAATGGAAGGAAATGAGTGTCTGAGTCTTAGAATCTCAAAAGGCA
TGAGGATAAAGCTTTCCTGGAGATAATATAAGTGGTGGCAGGAAGATTTGGGAGCCAGAT
GATACTCTTTTCTCTTAGAGAACTCTGTGGAAGCTCTGCCTATACTGTGGGAAATAAA
TTCTAGACGCTGGCTTCTTCTGTAGTAAACATGTGGGCCCTTTAAATGTTGAACCA
AA
ATGTGCTTCAAATATAGTTTAAGTTATAAAACATTTATGGGGGAGTATGTATGTGCCAA
C
TACAGAGGCTTCAGAGATGAAGAAACAGTTCTTACCCTAGTGTGCTTAGAATCTAGTAG
TAGTAAGTAATAATTACTAACATATGCATTTACTATATAGGCAACTAGGGTAAATATT
TTACATAGATTACCTTATTTAGTAGCTCTTAGCTGCTAAAAA
Sequence 344
GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT
GG
GGGAGTTAAATAAAATAAGCATGTCTCCATTCTTTATTCTAAACATTTACTTATGACA
A
ATGTAACAACTGACAGAAATTTGAAAAATACCAGACACTTCTTAAATGATTCCCTTGG
T
TCAAAATTTACCCCTTCTTGTTTTCTCTTGCTTTTCAGGTAATTAACCTTCTCTTTTA
GTTTGAAGTATGCAGTGCAAGATTCCTCTGTAGTCTTTCCAAGTGAAGGGTATAAAAA
AAACACTTTATATTATGCCAGGTGAGGTGTGAGAACCCTGGCATCGGAAAGTGTGGC
TCACGGGTCATAGGGTAGTAAGAAGAATTTACAGAAGACAGTATAGGTTTCGAAAA
Sequence 345
AGGTACACTGCGGCGGGGCGAGAAAGCTGCAAGGAACAGAACAGCAATGCAGAAGCTC
CTCGAAGGGCCACCATCATCCTGCAAAACACCAAGCAGGGCAGTCTTATGCTGTGGCT
CTTCTCAAGGATGTCTCAAGGGCTCCGGTGGTGTCTCCTGCTCTATCCGCTGCTGTGGC
AAATCCTCTAAAAACAGCGTTTTGCACAGCAGAGAGCAAAGTCCGCTTGTTATTCCACCC
GATACGTGAGCTCAGTTTGCCAGCTAGTGATCAAGTCCAGCTGTTGGCAAGTTGGTCCCT
GAGGCCTTGTAAGTACCTGTGGCAGAGAGCTCCCTGGGTCCAGCATCTGTTGCCCTCA
CCCTTGACACATGCGGACCCTCCCCAGGC
Sequence 346
GCGATTGGAGCTCCCCGCGGTGGCGGCCGGGTACAAGAGAAGAAAGACCAGTCCCTTGT
GAAAGACAAGTCTGAATGCTCCACTTTTCAATTCTCTCTCCATTCTCAGTAAGTCAA
C
TTCAATGTCGGATGGATGAAACCCAGACACATAGCAATTCAGGAAATTTGACTTTCCATT
CTCTGCTGGATGACGTGAGTAAACCTGAATCTTTGGAGTACCCATTCCCTTGATGTCTAC
AATATCACCTTTCTTATAGATTGCGATATATGTGGCCAAAGGAACAACTCCATGTTTT
T
AAAAGGCCTAGAGAACATATATCGGGTGCCTCTCCTCTTTCCCTTTGTGTTGTCATT
TT
GGCGAATTACTGGAAGATG
Sequence 347
AGCTCNCCGCGGTGGCGGCCGCCCCGGGCGNGGTACCACNGCCAGCTAATTTTTTATGTT
TGTAAGTAGAGACGAGTTTACCATGTTGGTCAGGATGGTCTCAAACTCCTGACCTCAGGT
GATCTGCCCTGCTTCGGCCTCCCAAAGTGTGAGATTAGAGGCATGAGCCACCATACCTGG
CTCTTTTGCTTCATCCATCCCTTAATTTCTTTGCTGGAGCATTTTAAAGCAAATATCAG
A
CATACCTTTTACGCCTCACACTTCAACATGCGGCTTGTTGAAATTCGTGCTCCACTCCA
GCAACTGCTTTCAATCGGAGTTCCATCCTCGCCGCGAGTATGCCCTAACGCAAGCGTTAT
CTTCAGAGCTACCACCAGGNTCCGAACTTTTTCGGNGGGAGGCGCTTTNGCCACCACC

Table 1

TNGCCGGGNNAAACGGNTNGCGTNAAACCAAACCTTTGAACGGCCAGNCCCCCGNGGTAC
CTTNGGGCCGGTTTAAAACTAAGNNGGGGATNCCCCCGGGCTGGCAGGGAATTTTCGAT
ATTCAAGCTTAATCGATACCCGGCGACCTTCGAGGGG

Sequence 348

ACTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACTTGACTGCTAACAACCTTCAAATTCTT
CTACTTACTCCCTCTTCTTCAGCTTCACATCTGGGAAAAGTATAGGGAAGCCTAGGTAG
GCCTACCTTTGGTGCCAGAGGGAAGCTCAATCCATGCAAGCCCCAGATAATATATGAGAA
CCTCCCCAACCTTACCCTACACCCCTCACCTCCCAATCCAAGCCAGTCTCCTTTCCCTGC
TTTCTCAAACCATGTTTGGACCTGCTTGAAGCTCCCTCTGCTCTCCCTAGAAAAGCTT
CA
TTATGTGAGTGATACATCTTTTCATATCTTCTTGGTGTGTGTGTGTGGTATCATCAGCC
T

CAACATCTGAAGCAAATGTTGGGTGGGGGTACCTCGGCCGCTCTAGAACTAG

Sequence 349

CCCCGCGGTGGCGGCCCGGAAGGAGGACGACGGTGCTGTGCTGTGTATGAAGAGGCAGTGAA
GACTCTGCCAACAGAGGCCATGTGGAAGTGTTACATCACCTTTTGCTTGAAAGATTAC
TAAGAAGTCAAATAGTGGGTTCTTAGAGGGAAGAGGTTGAAAAAACCATGACTGTATT
CAGGAAGGCACATGAAGTGAAGCTTCTGTCAGAATGCCAATAACAAGCAGTTGAGTGTTTC
GTTGCTGTGTTATAACTTCCTGAGGGAAGCTCTGGAAGTGGCAGTAGCTGGAAGTGAATT
GTTTAGAGACTCTGGGACAATGTGGCAGCTGAAGCTGCAGGTGCTGATCGAGTCAAAGAG
CCCTGACATAGCCATGCTTTTTGAAGAAGCCTTTGTGCACCTGAAACCC

Sequence 350

CTCCCGCGGTGGCGGCCCGCCGGGCAGGTACCCGTGCTAAAAGACTTTTAGTTCCGGCTCT
CCCAGTGTTTTTTTTTCGTCGATTTGGGCACAGAGTTTCTGGTTCACGTGGATGTGA
GG
ATCCTTTACTCCAGATCGCCAGCCAGTTTTTGTTTTTTTCTGCGTTGCTGAGAGTCT
G

GGTTTATTCATCACACCAGGTGGATCTTAATTCCATATCCCTGAGGCCACTGCAATGAGG
CAGAGGAGTGTGCTCCCTCATGAGAAAGGACTGGAGACCGCCCCCAGAAGAGAACGTATC
CATGTACCT

Sequence 351

CCCCGCGGTGGCGGCCCGCCGNNCTGGTACTTATAATGCCNNNNNTTNCNGGNTGTGAAT
GGATTACANTGTATCTTTTCAGGGAAACCTATTATTATCAATGTGACTCCACNCGGGGGAG
TCCATGGTGATGATGATGAGGAGGAGGATGATGATGATGAGACACCTCTAAACTTGGAAC
AAGTTTAAGACTTTATGAGAGAAGAAAAAAATCACCAACAAGAAATTGTTGAGGAAAAA
TCATAACTATCCTGTGTTTCATTTTTTTTTTATAACAATAAGAAAAAGTTGTTGGATTT
TTTTTTAATGATTTCTTTTTTGGGGGAGGGAATTTTGTGTCAGTTTATGGTGGAAAA
T

GCAAAAACCAGAGCCAGGTGCATAATCTTGAATCTGTGGATATCCCTGGAGCAGGACTG
ANCCT

Sequence 352

NCCGCGGTGGCGGCCCGCCGGGCAGGTGGTAACAACGCAGAGTCCCGGGAAGCAGTGGT
AACACGCAGAGTCCCGGGAAGCAGTGGTAACAACGCAGAGTCCCGGGAAGCAGTGGTAA
CAACGCAGAGTCCAGGGAAGCAGTGGTAACAACGCAGAGTACCCGGGGAAAAAAGGCAAA
TAGAATGAGAACCATATTATGTACCT

Sequence 353

CTCCCGCGGTGGCGGCCGAGGTACACCCAGCTTTGTCTCCTGGCCCCAAATCTCCTTTTC
CTTACTTTGGGCATTAAGTGTGTTGAGGTCTCACAGCCTGATGGTCATTATCCCTGA
AT
GGCATAAATCAACAGGCTGTATGAGCATTGTGTGAGATTCTACATGAGGGAGAGCATTTTC

Table 1

AAACCCATGACAGATGAGAGAAGTTAGTACACTCTCACTGAACTGGGGATGTTTGACTTA
AAATGATGGACAATAAGATAGTGAGCAGTAAGTGTGCTCTAGGCTAGGCTACGAGAGGCC
ATGAGCTCCTCATCTCTTCTCTGTTCTGAGCTCTCTGATCCACCGCACTTGGGGCAGGGG
GTGCATTCTCTGTGCCTCTCCTGAGTCTACTTTCTGCATCATTGGGTCTCCCAGCTC
AC
TTCCATAATGTCCTCCTAGGCTGCATTGGAATTTGTGTGTTGTCTAGACCCATGGCCAAN
ACTGTCAATGCCTGTGAGGGAGACCAAGCTTACCCACCCAAGGGCTTTTG
C
Sequence 354
TGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTT
GC
CTTTAGAAGGTTAAATGCCAATATAAAGCTAAACAGTAATCATCAGAGACAGCTCTAA
TAAGGCTTTGCTACTGTTTTTACTATATAAATCTTACGTGTTAATGGAAAAGAAATTA
TTCACTCTGTTACTCCATTTTTTCTCTCCATATTGTATGCCTGAAGTGAGCTGATGAG
G
GGCAGAAAGATCATACAGTTAGGAATGAAGACATCAGAAATGTTCCACTAAACAGATATTT
AAGTAGATACTATTATACTACTAAGAATAGCAAGAATGTCTCTCAATTCTGGGAATTTT
T
CCTAGCTCACACAAATGAAACGCACATCTCCATGAATGCTTTCTAATAAATGCTTCCAGG
ATAGTATCATAAACAAGTCAAAATTAAGAAAAATCAC
Sequence 355
GCTCCCGCGGTGGCGGCCGGAACCGCCATCTTCNAGTAATTCGCCAAAATGACGAACACA
AAGGGAAGGAGGAGAGGCCACCCGATATATGTTCTCTAGGCCTTTTAGAAAACATGGAGTT
GGTCCCTTTGGCCACATATATGCGAATCTATAAGAAAGGTGATATTGTAGACATCAAGGGA
ATGGGTAATCCAAAGATTGAGTTTACTCACGCCATCCAGCAGAGAATGGAAAGTCAAAT
TTCTGAATTGCTATGTGTCTGGGTTTCATCCATCCGACATTGAAGTTGACTTACTGAA
G
AATGGAGAGAGAATTGAAAAAGTGGAGCATTGAGACTTGTCTTTCAGCAAGGACTGGTCT
TTCTATCTCTTGACCT
Sequence 356
GTTGAGCTCCCGCGGTGGCGGCCGAGGTACCTGACTGTGGCTCAGATCTGCGTCGCAGCA
GCGAGAGAAGAAATCACTCCATATCCGATGAGAGGAAGGGTGGCACAGAGATGGTGTCTA
CAATTAGAGACATTTCTGACTCCACCTTAGCCTAAGCAAACCTTTATGTACTGAGTAACA
T
TTGAAGGTTGTCTTTAATGGTGGGGGGTGTTTTTTCTTTTTAACTACAGTGCTTGC
A
CAAGAGAGGGAGGGACTCAGAAAAGGTTAGGGCAGGTGAGGGAGACAGTAGATGGCCTGG
GATGACTTGAGTCCATCATACTATTGCTTGGCAGGTGTCTCCCCCATGTTTGATTCA
AA
TTCCATGAGTGACCTACCTTTCCCCAGGAATGGGACTGAGAGGGTAGTCTCCAGCAACTC
AGTCTGCACAGGGCTCCCCGTTGAGGCTGCCTT
Sequence 357
TCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCATCTGACTTGGCAATGTAACGACACACA
CGTTACGTGTGGGGCACAAACGTGGAATATTAGGAGAGAGCTGGTTCCAGCACCAAATCC
AGAGTCACTCGGGGAAGGAGGTATGGTGGCAACACTTTATGCTTAATATTCAATTCTGCT
CCAGTAGAACATGGTACCACCATCTTCCAAGTTCAAAAATTATCTTTGATTCAATTTG
T
TCCCCATTCTCTAATATGTCACCAATTCTGCTGATACATTCTTTGTAATCTCTCCATC
T
ATTTTAATCTGTTATTCACCTGAGCTACACAAACATTCATCTGCACAAGGAGTATTCCA
C
GTGCTGAAAAGACAGAGGATTAAGCCCTCCTTGTGGAGGCATTCACAGTCTGGTTTTAAT

Table 1

ACACAAACCAACAATTATAATACACAGGGATAAAAAAAGTAGAGGCACCTATTGCATACC
TGTACCT

Sequence 358

TTGACTCCCCGCGGTGGCGGCCGAGGTACTTTTCTAGCAGTCTGTGGCCACTCCATACTC
AGCTGAAAACACTGTTTCAGCCCCCTCTCTGGTGACCTCAGCCTTCTCCAGGTGTATCTC
TTGATGATCTTGGAGACCAGCAGCCACAGCTGCTGCTACTCCTGCAGGAGACTGTCAGGC
TGTGGTGGGGGGCAGGGGTGTTGGAGGAGAAGTTGAAAATCCGTGTGTTCTCTGTCCCTC
TGCTCCTCCATCTTAGCTTCTGGAGGAGTTAAGGCACCAAGGGCA

Sequence 359

CGGTGGCGGCCGCCCGGGCAGGTACTGGTGTGTGATCGGAACGTGTGATCCCCCTCTTC
TCATCACTGCTGCTCCAACCTGGATTTATTACTCCGGGAATGGTAGAGAATAAAGATTTGT
AGGAAAGGTGCTGAACTGCCAAGGAAGGCATTTCTTGTCCTGTCTGGAACCGTGATC
CTTACTACATCACTGAACGACACCAAGCACCTCATGCACTTCTGGGTCCAACCTTGGCCC
CTGGAGAAAGACACTGAAATTTGGCCATGCAGGTCTACTTCCCGTAGGGGGGATTTTTTT
TTANNAANTGTTTNNGCCCNNTTGAAGGAGGNTTTTAAANCNAAAAANAAANTTT
T
NTTCCCCCGGGGGGNNNGGNNTTTTTTTAGGGGGGAAAANGGNGGTTTTANTCCCCCN
NNGGNAAANCCCCCNNTTTTTNTTTTTTGGGGNNGGGAANATTTTTTNGGGGGTGCN
CNGGNGNNTTTNNNNANAAANNAAAAACCCCNNTTTTNNTTTTTTAANANACCCNCNNN
AANNGGGGGGTTTTTTTTTTTTTAA

Sequence 360

TGGCGGCCGAGGTACCTACTGAAAACAAACACGCCAGAGGAAATTTGGCCAGTTATCCA
ATTGATGAACTANTAGGATAGAGCCAAACAATCTTTCAAGAGGGTGTGTTGTGAGATATG
GTTGACCAGTGAAGACACGGGGGCTTATGGCAGAGATATTGGCACCAATCTNCCACACT
CCTGTGGAACTGGTTGAAGTGATTCTGAGGGAGCAATGCTGAGGCTTGGCATGACAAA
TCCGCCCTATATTTAGAGCATCTGGAGGAAATGGCANAAATCCTTAATCACCCAGAGT
CTACGCTTTTCTGCACATACCAGTCCAGTCTGCCTCCGACAGCGTACCTGCCC

Sequence 361

GATTGAGCTCCCCGCGGTGGCGGCCGAGGTACTTAAACCAAATAAAAAGTGACATTTGA
ATTTCTTTTAAAGGATTTCCGAGCTCACAGTCAGCTTGCAGCCATTCTCCCGCGTACC
AGCACAAACCGGGCCAGCCTCCTAAACTGCTCATTACTGGGCCGTCTACCCGGGAATCC
GGGGTCCCTGACCGA

Sequence 362

GAGCTCCCCGCGGTGGCGGCCGAGGTACGTATGCACAGCCTCACACTCTATAAATGTATG
TGTCTGAATTTAGAGCTTAATAATGAATTATGGAACCTTGATAATGATTGGATCAGGCA
GACAACACCTGATCAGTCCTAATATCAGAAAAGAGACAAGTAGACATTATGTGCTTCTG
AGGTGAGGCAGTAGTAAGGAAACAACATCACACATGTAGCAGTCTTGGGAAAAAATGT
AACCTGTATCTCGTAATGAGGAAACAATCAGTAAAAAGTCTAGATTGTGGGACATTCCA
CAAACCTGCCTGAACTCTTAATAATGTCAGTGTATGAAAGACACACCACACACACACA
CTGCACATCATACAAAACACCACCCACCACCCACCACTCAGACACACAAAAAGGGCA
ACTCTAATCAATTAAGGAAACAAAAGAGAATGACAACTACATATAACGTATAATTCTTG
ATTGGATCCTGGATTTAAAAATAAACAGCTATAAAGGATATTTT

Sequence 363

GCTCCCCGCGGTGGCGGCCGAGGTACTTAAACCAAATAAAAAGTGACATTTGAATTTCT
TTTAAAGGATTTCCGAGCTCACAGTCAGCTTGCAGCCATTCTCCCGCGTACCAGCACA
AACCGGGCCAGCCTCCTAAACTGCTCATTACTGGGCCGTCTACCCGGGAATCCGGGGTCC
CTGACCGA

Sequence 364

TNCCGCGGTGGCGGCCGAGGTACAACGCATGAGTCCCGGGAAGCATGTGGTAACAACGC

Table 1

AGAGTCCCGGGAAGCAGTGGTAACAACGCAGAGTCCCGGGAAGCAGTGGTAACAACGCAG
AGTCCCGGGAAGCAGTGGTAACAACGCAGAGGCTTTCAGCACAGCCCAGGGTGCCCGGGA
CTGAAAACCTCCTCACCAGCCCCCTCCACAGGATATAGAAGACTTAGATCACTACGAGAT
GAAAGCAGAGCCCATAGTGGGAAAAAGTTGGAGGATGAAGGAATTGAAAAAAAAAAAA
AAAAAANGTNCCTGCCCCG

Sequence 365

TGACTCCCCGCGGTGGCGGCCGAGGTACCAAGCACTGGGTAAGGCACCTTTTGTGGAGCAT
TAGACAGTAACCCCTCAAGGAGCTAGAGAACCGGATGGGAGACATGAGCGGTAATTAATC
ACTTGTTCCCGAGAGTTTCTATTTGTTTTNTTTTCTTTTCTGTGACTTATTTTCCTATT
TTCTTTCCTCCATGTAATTTTCACTATGGCCCACTAATATAAACACCTGGAAATTACA
A
GGAAAAAAATTTCTTCTCTAATAACTTTCCAAATTTGTGGAATATTTATTTGTAATAGC
AGTTATCAAGTTATGCTTATATAAGCATTAAAAATTCTCCTCCTTTGACTACACACACA
A
CCACAGTGTGGTTCTAATCNATGGGAGATATCAAGTAATTTTTTAGTAACCTGAATTTT
G
AGGGACATTTCTCTGTTTAAGCATGTATGCAAAGTATGTAATCCTGANGGTCCCAAG
TCAATTTTTTTCTT

Sequence 366

CTCCCCGCGGTGGCGGCCGAGGTACTTTGCATCCTTCAACCCAATCAAGCTGACACTCAG
TATTAACCATCACAAGGCGTGAGGACAGATAGCTGCATCCGCAAAATAGAGAACCAAGAA
ATAGTCCACACCAAAGTCAGGATCAAATGATTCTGGACAAGCCACCAAGTCAATTCAA
CTGAGAGAAAGAAGCCTTTGCACCAGTTGGTGCTGGAAGTTCTGGATATGCACCTGGATA
AGTGAACCCCCCTCCGTCACCACACACAAACGTTAATTTGAGATGGATTGCAACATAAA
AGCTAAAACCATTAACACTTCTTGAAGGTAACATAGAATATTTTGAATGTTATGATAG
G
CAAAAGTCTCTTAGGACACACAAAAAATTAACCATAAAAGAAGAAAATGGCTGGGTGCA
GTGGCTCACACCTTAAACACCAGCATGTTGGGAG

Sequence 367

CTCCCCGCGGTGGCGGCCGAGGTACATTGTGATTCAAGAGAAAAGTCACATGCAGGTCTG
AGCTCCTCCAGCAGGCCTTATGTAATGCTAAGATTTTTGGGGAAGATGAAGTTGAAGTGA
TGAAGTGGCTGAATGAAGTGCATGACAACTGAGCAAGCTCTCAGTCCAGGATTACAGCAC
TGAGGGGCTATGGAAGCAGCAGTCTGAACCTCGGGTTCTGCAAGAGGACATCTTACTCAG
GAAACAAAATGTAGATCAGGCTTTACTAAATGGTTTGAAGTACTTAAACAAACCACAGG
TGATGAAGTTTTAATAATTCAAGATAAATTGGAAGCCATTAAAGCAAGGTAAGTGCAGAT
ACCGAATTGAGCATACCACAAAAAAGTTCTCATTTTGTGTCCTCCCATNCCATTCTCCT
C
ACTAACCAAAG

Sequence 368

CTCCCCGCGGTGGCGGCCGCGGGCTGGTACAATGTGCCTGGCACCTTACAAGACACAAAT
ATGCTCTTATAGGCTGGGGAAATAAGAAAATATGAATGAAGCAACCCAGGTCTTGAGCCA
AAGAATTACCTGGGGTCCGTTGAGTTCAAATCTGAAAATTTCTGTCTTCAAGGTCAGCA
TCGCCCACAAAC

Sequence 369

CTCCCCGCGGTGGCGGCCGCGGGCTGGTACGCGGGGGTTTCCGGTTTGGGTGTGGCCG
CATGGCGTGCTGGGGTGCAGGTGGCCGAAGGGGGCGTTACTGTTGCGACTGGCATCCGCA
TCCGGCAGATGTAGATGGAACCAAAGCCAGAAGTTACGCGTCACCTTGCTCTACAGCCA
AACATGCAGGACTCTAGTAACCCGCGAAATGATGGGATAGCGTTGCAAAATCCTTAAAGA
GTCTTAACGGAGAAGGAAAAATGTTACATTGTCAAAGTCCCAAAGCCTTTCAGCCTGAAG
CCAGGAACAATTGTTCAAAGTTTCTTTGGAACATCAAGGAAGGAAATCCAGATTTTACTT

Table 1

TAAGTGCAATGGGGGAGTCATTAAGGATTTTGTGTAGATACAGCAAAAAGACAACAATCT
TCAAGCCACAATGGCCCTCACCAGAACCAGC

Sequence 370

CCCGCGGTGGCGGCCGAGGTACTTAAACCAATAAAAAGTGACATTTGAATTTCTTTAA
AAGGATTTCCGAGCTCACAGTCAGCTTGCAGCCATTCTCCGCGTACCAGCAGAAACCA
GGACAGCCTCCTAAGCTGCTCATTTACTGGGCATCTACCCGGAATCCGGGGTCCCTGAC
CGATTCAGTGGCAGCGGGTCTGG

Sequence 371

CCCCGCGGTGGCGGCCGCCGGGCAGGTACGATTATTTTCAAACAAGCCTACGTCCCTGA
CTAACCGAGTGGAAGGTGTGAGTGGCACTACAAATTCACAAAAGAACTGTAGCCTCAGAT
AATCAAAGGAGAGAAGGTGAGTGAATCACTGATGCATGCTAGTAATTCTCAAACCTTC
GTTTTAGAAACGATTGGATTTTCAGATAGATTTGCAGTAAGAGAATAACAAGTCTTTA

T

TTTTTTCATCCCAACTTCTTTCTTGACATTTTCTTCTAGCTATATTTAATATCTGTTT
TCCCCACACACTTGCTAATCTACATTTCAATCTTCTTCACTTTCACTTTGTCTGCAA

A

GGAAATCTACCCTGGGACAGAANAAGCATCTCTTTTTTTTCCCCCTGACCCTTGGCA

TT

TTCTCTCCCTTCAACTT

Sequence 372

GATTGAGCTCCCGNNCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGGATGTCTCTTGTC
AGCTGTCTTTTCAAGACCTGGTGGGGCAAGTCCGTGGGCATCATGTTGACCGAGCTGGA
GAAAGCCTTGAATCTATCATCGACGTCTACCACAAGTACAAGAGATAGAAAGACCAGTC
CTTGCTGAAAGACAAGTCTGAATGCTCCACTTTTCAATTCTCTCTCCATTCTTCAGTA

A

GTCAACTTCAATGTCGGATGGATGAAACCCANACACATAGCAATTCAGGAAATTTGACTT

TCCATTC

Sequence 373

CTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAGAAGGAATGGAAACGCCTGGAGAAAAGAG
GATGAAATGACGGATGAAGCAGTTGGAGACTCTGCTGAGAAGCCTCCTTCTACTTTTGCC
TCACCTGAGACTGCTCCAGAAAGTGGAGACCAGCAGAACTCCACCAGCCTGTGAAACCACG
AACCCTTCAATCAAGAAAAGACCTTTGATCAGGAGAAGACTTCTCGTCTCATTTCTGGGG
ACACATTCAGGATTTCTCAAAGCAGGTGAAGGTACCTGCCCG

Sequence 374

TCCCGCGGTGGCGGCCGAGGTACGCGCCAGTCACTAGCAGGTCTTGTGAATCTCCTCAC
GGAGGCACTTGCAGAGTTAATGGGCAGATGGAAGGAGATGGCAAGGACCAATCTGGGGC
CGAGCAGGAACAAAAGCAGCAACGCTAACGGAAAAGGGCCGCGCGGGCTGGTGGGCCAG
ACAAACCAGACATGGTGCTCCCCGCGTACTCCTTATACTTATTAACACAAAATTAATTG
TAAATAGCCTCAGGCAGGTCTTTCAGGAGGTATCCAGAAGAAGGCATTGTGATCATAGG
AGCTGATGGCTCCGCCTGGGTTACTGCCCTGTAGACTTCCAGTGGGACAGGATTGGGAG
GTGGGAAGGACAGTGACATGGATGATCCCGGACCCTTTGTAGGTCTAGGCTAACGTGGTG
TGNTTTGNGTCNTTAGCTTTTTAACCAAAAAAAGTTTAAAAAAGGTTAAANNANCNT

N

TNNNNNNNNNNNTNNAANNNNGGGTNCCTTGCCCGG

Sequence 375

TCCCGCGGTGGCGGCCGAGGTACCTCAGCTGTTGATCTGTGGAGCCTAGGAATCATTTTA
CTGGAAATGTTCTCAGGAATGAACTGAAACATACAGTCAGATCTCAGGAATGGAAGGCA
AACAGTTCTGCTATTATTGATCACATATTTGCCAGTAAAGCAGTGGTGAATGCCGCAATT
CCAGCCTATCACCTAAGAGACCTTATCAAAAGCATGCTTCATGATGATCCAAGCAGAAGA
ATTCCTGCTGAAATGGCATTGTGCAGCCATTCTTAGCATTCCTTTGCCCTCATAT

Table 1

T

GAAGATCTGGTCATGCTTCCCACTCCAGTGCTAAGACTGCTGAATGTGCTGGATGATGAT
TATCTTGAGAATGAAGAGGAATATGAAGATTGTTGTTAGAAGATGTAAAAGAGGGAGGTG
TCAAAAATATGGACCAGGTGGTATCTCTACTTTGTTCCAAAG

Sequence 376

GGTCACAGGTCTCGAAAAAGCGGGTGGTGCAATGCTCCATGGGGATGAGGGGAGCACCGC
AGTGGAGCCAGCTCGGTGTGGGAGAGGTACCTCTAAGGTGTTCTTCTACCTAGCCTAGT
TTTTTCTACCAACCTAGTTCACCTAGTTTCTGCCTAACCTCGTTAGATATCACTCTT

C

GCTGCTTCAAGAATACTAAAGCAACACTCCTGATATTAACCTACTACTCAGTTTTTGTG

T

GGCAAAAACAGNAGATCACATCCCATTGTCTTTGNGTTCTCTTGGCTGNNTAAGCANC
AANAGTTTAGCACTTTAATTCATTGCTCTACCAAATGGTTTAGTTTGGAAATAGGGGTG

G

ANGTGGACAAGAAGNTTTTGNTTAATCCCTCAAAGCCAATTNAACTTGGTTTTTGGT

T

TTAGGTNGAGGAAGGGCCANGNANTNGTTCAAAGGTAGGCCTCAATGNAACCGTTTACCC
CCCN

Sequence 377

GCGGTGGCGGCCGGACGGAGGAGACGGTGCTGTGCTGTATGAAGACGGCAGTGAATGA
CTCTGCCAACAGAGGCCATGTGGAAGTGTACATCACCTTTTGCTTGGAAAGATTTACTA
AGAAGTCAAATAGTGGGTTCTTAGAGGGAAGAGGTTGGAAAGAACCATGACTGTATTCA
GGAAGGCACATGAAGCTTCTGTCAGAATGCCAATACAAGCAGTTGAGTGTTCGT
TGCTGTGTATAAC

T

Sequence 378

TCCGCCCCGGGCAGGTACCAGGTGGTGAAACCAACTGCTGAACGCACAGCCTACCTCCTGT
ATTACCGCCGAGTGGACCTGCTGTAAACCCTGTGTGCCGCTGNTGTGTGCCCCAGTTGC
CCGCTTNGTAGGACACCACCTCACACTCACTTCCCGNCTCTCTTTAGTTGGCNCCTTTAGA
GAGAACTCTTTCTCCCTTTGCAAAAATGGGCTAGAATGAAAAGGAGTATGCCNTTGGGG
TTCGTGCACAACACAGCTTCCTGATTGACTCTAACTTTCAAATCAAAATTCATTGGT

T

GAAACANGACTTGTTTGCTTGGATTTAGNAAAATACACAAAAACCCCATATTNCTGAA
ACAAATTGCTTGANTCCTGGAGATNAAGGAAAGNTGGGATTTNGATTCCCAAGTCCTCA
TTGCTTAAGTAGGAATAAAATCCTTGACCCATGCNAACAACCAACTTNGTAAATTTNGG
TGAAAAANTGAAAATTTAANTCTTNTCCTTTAAAAAAAAGAAAA

Sequence 379

GAGGGACTGCTAGCCAGCCAATAAAATATAAACTCCATTTGTCTTAGTTATATAGAAGTG
TGTTCCAGCTTAGAAAAAGTCAAACCAATGACTTNTAGAACAACTACTCTCATTTTT

T

ATTCAGCCTCTAGAACATGGAAGCTTTAAAGTGAATTGGCTAAANAGGCAAGACCTTCT
GAAAGTTAACATCTTAATGATTAACCAAGTAAAGTACGCACAACCGAAGCCGTAGAGTCA
CACTTGCAACAAAAGGTTACAANTATTGCTAATGGGGCTCTGTCCGGTNCCTGCTTGCCA
GCTGGACCATCTATTTATCCCTCCTCCTCTTGAGCTGTCAATTTAATTGC

Sequence 380

NCCGAGGTACGTTAGCTCATTTTCCCTTAAGCGGGTGTGACGTACGNTGAAATTGCAAA
CGCTCAAACCTCCAACACTTGCCTATACACTTGTAACCCAGCTTGNNAAGTGAGACAC
GCATCAAATCATGATGAACAATTGACCGGCTGCNTNGCAGTCAAGCAGTTGGGTTA

Sequence 381

CCGCGGTGGCGGCCGAGGTACACCATGTGAAGACTGGACTTAAACAGCTACACCACCAGA
AGCCGAGAGAGAGGCTGGAACATAGCCTTCCCTTTGGAGGTAGCCTGGCCCGGNGGGCAC

Table 1

TGTGATCTCAGACTTCCAGCCTTCAGAACTGTGAGACAATATTTATTGTTAAGCCAC
T
TATTTTTTGGTACCTGCCCCG
Sequence 382
NGGCGGCCGAGGTACTTTTTTTTTNTNTNTTTTTTTTTTGGAGACGGAGTTTCACTCTTG
T
GGCCCAGGCTGGAGTGCAACGACACGATCTCAGCTCACTGCAGGGCTNTGCCTCCTAGGT
TCAAGCTATTCTCCCTCCTCAGCCTCCCAAGTAGCTGGGATCACAGGCATGCACCACCAC
CNCCCNNGGCAAATGTTTTTTTTGGATGTTAAGNCNGACGTGGAGTTTCTCCATGTTGGC
CAAGGCTGGTCTCAAACCTCCCTGACCTCAAGGGNGATCCACCNTGTCTCAGCCTTCCAAA
GNGCNTGGGGATTATAGGCNATGGAACCAATNAACGCCCGGGCCGGCAATAAATTTGTT
ATACANNACTACCATGNAGTTAAATCTGCNANTANNATTGGGACCGAATGGTNTAATCCC
TTCNTACTTCTTAAATTNTTCCCAANNGGACCTTCAATTAATAATAATAAAAAATTNGGA
TCCTNTTTTTTTAAATGA
Sequence 383
CTGCCGAGGTACTCACAGTCACNCAAATTCNGNGGGTGGNTACACGGCTCTCCATTCTTC
TTCTTGGCTTTACAGGTTCCCAGGNCAAGAGCTTTACCCATAATTAAGNGNNTTCTGAGG
ATNATCCGNTACATAAACNACACCTCCTCTNGAACCATCCTTGGGGCCTTCATGGGGGT
GGGCATTTNAGGNATCCCTTACNAACAAGNCCCCNTGGTGNCGGNCTTTCCAGAAGCG
GCCTTTGGTGNAACCTTCNTCCCCAAAATAAANAACCAAGGGACAACAACATTTGNGGT
CANNNGGTNACCGAAANGAATCAATTTCAATTTTCCAATATGCNTCGAAAGGGGTTTTTC
CCACTTATTNCACACCTTCTTGNGGGCCNNGAACCCTTCTTCAAATATTAANCCCC
NC
AAAATTGGTCACCCCAAATCCTAATTTCTTTCCAAACCTTTCTTCTTCTTGCCCCATT
C
TTTTTCCCTTTTGAANCCTGGAAGAACAAGGTCTTGGAATCCAANTTTTTTCCGGGGN
CN
NCTCCTAAAAAACTAANNNGGAATNCCCCCCCCGGGCCTGCAAGGGGAAATTTCCNNTA
NTCAAAAGCTTTAATCTNATTACCCCNCTCAACCCTTCCAAAGG
Sequence 384
AGACTGCAGGAGATGTGGGCCGTGCCAAAGAGATGGATGAGACTGTTGCTGAGTTTCATCA
AGAGGACCATCTTGAAATCCCCATGAATGAACTGACAACAATCCTGAAGGCCTGGGATT
TTTTGTCTGAAATCAACTGCAGACTGTAAATTTCCGACAGAGAAAGGAATCTGTAGTTC
AGCACTTGATCCATCTGTGTGAGGAAAAGCGTGCAAGTATCAGTGATGCTGCCCTGTAG
ACATCATTTATATGCAATTTTCATCAGCACCAGAAAGTTTGGGATGTTTTTCAGATGAGT
A
AAGGACCAGGTGAAGATGTTTGACCTTTTTGATATGAAACAATTTAAAA
Sequence 385
GTACTCCGTCTCAGAGGANGGGATGCAAATCTTCGTGAAGACACTCACTGGCAAGACCAT
CACCTTGAGGTCGAGCCAGTGACACTATCGAGAACGTCAAAGCAAAGATCCAAGACAA
GGAAGGCATTCTCCTGACCAGCANGAGNGTTGATCTTTGCCGNGAAAAGCACGCTGNGA
AAGATGGGNGCCGCCACCCTGTGCTTGNACNTANCAACAATCCCATGAAAGGAGGTCTAC
NCCTGGCACCTTGG
Sequence 386
CTTTTGAAGGCCCGNTCGCCCGGGCAGGTACTCCCTGATAAAGGGGAATTTCCATGCCG
TCTACAGGGATGACCTGAAGAAATTGCTAGAGACCGAGTGTCTCAGTATATCAGGAAAA
AGGGTGCAGACGTCTGGTTCAAAGAGTTGGATATCAACACTGATGGTGCAGTTAACTTCA
GGAGTCTCATTCTGGTGATAAAGATGGGCCGTGGCAGCCCAAAAAAAGCCATGAAGA
AAGCCACAAAGAGTAGCTGAGTTACTGGGCCAGAGGCTGGGCCCTGGACATGTACTCT
CAGAATGTTTGTATATGCTTCTTGCAATGCATATTTTTTAATCTCAAACGTTTCAATAA

Table 1

AACCATTTTTCAGATATAAAGAGAATTACTTCAAATTNGAGTAATTCAGAAAAAAGTCA
A
GAATTTAAGTTAAAAAGTGGTTTGGACTTGGGAACAGGACTTTTATACCTCTTTTACTG
T
AACAAGTACCTCGGCCCCGCTCTAGAACTAGTG
Sequence 387
TCCTGTATTGCCTTTTAAATCTTGCTTGTTAAGNACNTTTCAGGGATTGTCATCATTG
A
TCATCTGTAAATTGTCAAGNACTAAGGTCCTAAACCTTAATC
Sequence 388
CCTTCCCNCCCNGCGAGNCCGCGNGGGGAGATAAAAAATACCAACATAATATANCACGG
ACTAACCCCTAAACCTTCTGCNTAATGAATTAACNAGAAATANGGGGGGCAAGGAGNGCC
ANAGCTAANACCCCTNAACCAGACGAGCTACNTAAGAACAGGTA
Sequence 389
CACGCCTGTAATCTCAGCACTTTGGGAGGCTGAAGCNGGGCCGGATCACGAGGTCAGGAG
TTTCAGACCACCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAATACAAAANNGG
GTGTGGTGGCGGGCACCTGTAATCCCAGCTACTTGGGAGGCTGAGGNGAAGAATCGTTTG
AACCTGGAGGCAGAGGTTGCAGCGAGCCAAGATCACGCCATTGCACTCCAGCCTGGGTGA
CAGGGCAAGACTCTGTCTCAAAAAAAGAAAAAAGGAAAAAGCCTTTCTTGATGCTG
TTCCCATTTCTCCACTAAACGCCTGCTTTCTTAACCTCCACACCGAACCAACCTGA
AA
TATTTTGGCNAGAATGCCAACAAGAATTGAAAGAAAAGATGCTTTACAAAAATAACAATA
TAAAAAGCAAATTATATTATCCCTTTTATCTCCATTCTTACATTAAAAAATAAATCG
GCCGCTCTAGAACTAGTGGGATCCCCCGGGCTGCAGGGAATTTGATATCAAAGCTTAT
CGATACCCGTCCGACCTCGAGGGGGGGCCCCGGTACCCAGCTTTTGGTCC
Sequence 390
AGTACNCGGGGCTTTTCTCAGGCGGNGGCATGGCGGGACAGGAGGATCCGGTGCANCGGN
AGATTACCAGGACTGGGCTAACCGGGAGTCGGCCGCTCTAGGGGN
Sequence 391
CGCCGAGGTACGCGGGATGGGATTTCTGACCATTGCGCTCTTGCAAAATAGGTCT
AATGGCAGGATGGTGTCTAATTAAGGCTACCAAGACTGCCCATTTGTTCCAGGCTGGGCA
GTTCTAATGGGGGCAGACAATAGTGCAAAAAATTTTACATTTTATCTTTAGAGTGTC
A
GGGTCAAATTGATTCCATGGTTGAGGATGTAGCCAAGTGTGGAATCAGGTGGAATAGGT
GGAGAGTTGCCCATAGTGGTTTGGAAAAGAGAAGAGGACTTTGAAAAGTGGAGGGCTCAT
TAGGTGACCCAAATTTTACCTGGGGCATCCCCCTTTAGGGCCCCAACCTTAGTCTGTGAG
ACATCTCTGACCTTAGATGGGTGCTGGCACCACCTTTGGAATGGTTCCTCCATCACTGAG
GACCTGACTTAAAGTTTTCTATCTCACTTAAACAACCCTTTAACGCTCTCAACTTAG
G
CAATAATAAATTCCTTTTCATGAATTCCTTCA
Sequence 392
AGCGCGGGGAGAGGCCGGTTTGCAGTATTGGGCGCTCTTCCGCTTTCCTCGCTCACTTGA
CTCGCTGCGCTCGGGTCGTTCCGGCCTGCCGGCCGAGNCGGTNATTCAGCTTCACTCAAAA
GGGCGGTAAATTACCGGTTTATCCACCAGGAATCAAGGNNGGATAAACGCAGGGGAAAGA
ACATGTNTAGTCAAAANAGGCCAAGCNNAAGGCCAAGGNAACCCGTTAAAAAAGGCCCG
CGTTGCTTGGCGGTTTTTCCATAAGGGCTCC
Sequence 393
NATTGGAGCTCCCCGCGGTGGCGGGCCCGCCGGGCAGGTACAGGACACAGGCACTCCTTTG
TCTGGTAGAGAGGAGGAGGGGAAATGGAGCTATTCCAGGATACAAGGGATGGCACTGAGG
GATGCATAAGTCCCCTGCCTCCCTTGCTCAACATGTTCTCCTCTGCCAGCCCAGTCAGC

Table 1

TTGGGGAGCTAGGTATCAGAAACCTGAAGGATCCAGCCCGCTTTGTCCTACTAGTGTCTA
TAAGTCTCTGTCCTGAGATCCTGGGGCTCCTCTATTTCTAGAAGGGATGAGGTGCCATC
AAAAATAACTTGGCTGGTGTAAACAGTTTAGAGAAGGAAGTCACACCTGTAGCCTGGCTGG
CAGGCAGGTGGACATGAGGCTGAGAAGGGAAGCCAGATGTCAGAACATACTAGGCTAGCA
TGCTTG

C

Sequence 394

GTGGCGGCCGAGGTACCAGGCTGGCGACAGGTGCTACCAGGAGTGGGCTGAGGGGAGAAA
AACTATCTCCCACTCTTTTGGCCAGGCAATGTCAACGACTTCCACATTCCCTGGCCAC
TTGCTGAGCAACCCAGGTTCTGGCTCTGTATAAGGACCTCCCTNCCAACCCCAACCC
AGAGTGCAGTGCAAATCAACCAACAATTTACTGGTGAATGGCAATCAAAGGAAACAGTT
AAACACCAACAATTNCTTAAAGCCAAAAATATTTTTCATGGAGTTGAACATTTTTCG

A

GTGTGTTTTTTTCAAGTGTAAGAGCAGTGACATTTTGTTCAAACAGAAGCAGCATCTAGG
AATTCTGGCACTTGGGGTTCTAAGGGGTTACAGGTATGCCATCATGGATTCTTCTCC

C

Sequence 395

NGGGGCCGGGCCCCCGGNGGGGTTANCCCTTTCCATTTTNNANCAACCTTTTAAAAGCCCT
TGGGGAGGGNNGGGGTTTAAAGGGGAATCCCTTTNAAAATTTTAAATNTTAAAAAGGG
CCCCCATTAAGNAATTTCCCAAGGTTTTTNAAGCCTTTTTTAAACCCCTNAAGNACCAGG
GNAAAAAGGTNGGAAAAAAGGGCCANTTTTTTTACCAAAGGGNNGGGGGAGNGGAAGGG
CCAAANTGGGAAGGAAAAATTAAANGGGCAAAACCAAGGAATTANATTACCGTCCAAA
AAAGCNTGGGGAAACCAAGGGGGGCAGGAAATTCAGNAAACCGTTGGTCCTTGGGCCT
TATTCAAGCCTTTTTTGGTTTTTTTTGGACCTTACCTTAAAGGGCCCCAAACCCCTT

T

TTTTTAATTTCCCTCCTTGGGAATNGGGGTTCTGGCCAAGNACCCCAAAAGGTTTCCAA
GGGAAAATTTTTTAAGGGCCCCAAAAAAGGGGAATTTTTCCCCCAAAAATNGGGGNATT
CCCCCTTAATTAACCAATTCTTTCNAAAGGAAAAGGGAATTANCCAAGGGGGTTTTGGG
AAGGNAAAAGGGAAAANGGCCCCCNCCAAAGNAAAGGGGNCCTTTTGGGTGGGAATTGGG
AAAACCCCCAAAAAAGGAAAAATTCNTTTTTAAAAAAGGGAAAAANGGGGGTTN
TTNCCCTTTCNAAAAAATTGGCCCAATTNGGTTCCCAAGGGTNAAGGNAATTTTTTG

G

GGGTTNAAACCTTTGGGGGCCAANGGGGGGAAAAAAACCTTTGGGTTCCTTTGGG
GGGGNAAG

Sequence 396

TGGGGGCCGGGCCCCGAANGGTTACCCCCGCGGGGGGGAGGCCTTTTNTNCCCTTG
GGCCAGGGTNTTNCNTTTCCTCAAGNCAANGGAAACCCCTTTCTTTTNCCTTGGGTT
TTTGAAAAAANGGAATGGGGTTCCCGGGCTTGGCNTTTTTGGGGTTANGGGCCACCGC
TTCAAGTTCCTTGAAATGGTTCCTCGGCNCATGCTTTCCCGGGGCCCGGCTTCNTAAGNA
AACCTAAGTGGGGAATCCCCGGGGGCCCTTGCAAGGGGAATTCGATAATCAAAGCTTA
ATCCGGATAACCCCGGTCCGAACCCCTCGGAAAGGGGGGGGGGGGGCCCCNNGGGGTAC
CCCCAAGCTTTTTTGGTTTTTCCCTTTTTAAAGTNGGANGGGGGGTTTTNAAAATTT

T

GGCCCGGCCCGCCTTTTGGGGCCGTTAAATCCAATTGGGGGTTCAANTAAGGGCCTTG
GGTTNTTTCCTTGGTGGGTGGGNAAAAATTTGGGTNTTAANTTCCCCGGCNTTCCAA
CCAAANTTTNCNCCAACCAACCAAAACCCAATTTANCCGGAAGGCCCCNGGGGGGNA
GGCCCAANTTAAAAAAGGGTTGGGTAAAAAAGGGCCCCCTTGGGGGGGGGGGTTGG
GCCCCNTNAAAATTTGGGAAAGGGTTGGGAAAGNCCCTTTAAAAACCTTTCCAAAC
CAAATTTTTAAAAAANTTTTNGGCCCGGTTTTTTGGACCCGGCCNTTTCNAACCCT

TT

GGGGCCCCCCCCGGGCCTTTTTTTTTTCCCCAAAAGGGTTNCCGGGGGGGGGGGNAAAAA

Table 1

AA

Sequence 397

GTGGGGGGCGGGGCGGGAGGGGTACCCCGCCGGGGNGGCCCTTTNTTTCCTTTGGCC
AGGTTNTCTTCCNAACAAGGGGAACCCCTTNTTTCNTTGGGTATTTTGAAAAAGGAAT
GGGTTGNGGGCCTGGCTTTNTTGGGGTTAGGGGCACCGCCTCAAGTCCTGGAAATGGGTC
CCCGCCAATGGNGTGGCCNGGCCCGCATCTTANGGAAACCTANGTGGGGAATCCCCCCC
GGGGGCTTGCAAAGGGAAATTTNCAATATTCAAAGCTTAATCGGAATNACCCCGGTCC
GNACCCCTCNGGAGGGGGGGGGGGGGGGGGGTAACCCCAANCNTTTTTTTTGGTTTC
CCCCTTTTAAAGTNGGAAGGGGGGTTTTAAATTTGGGCCNGCCCGCCTTTTGGGGCCG
GTAAAAATTCAATTNGGGGTCCAATAAAGGCCCTTGGTTTTTCCCTTGGGTGGGTGG
AAAAAAATTTNGGNGTNATTNCCCGGCNTTCAACCAAAANTTTGCCCAACCCAACCAA
AANCNCAATTTAACCCGGNAANGNCCCCGGGGGGGGGAAAGGCCCAATTTAAAAAANGG
TTGGGTNNAAAAAAANGGNCCCCCTTGGGGGGGGGGGGTNGGCCCTTNAAAAATNGGGA
AAGGGTTGGGGAANGGCCCTTTAAAAACCTTTCAAACCCAANTTTTTAAAANTTTTTGG
GCCCCGTTTTTGGNCCCGNCCNTTTCNAACCTTTGGGCCCCCCCGGGCNTTTTTNTT
NCCCCAAAANGTTTCTGGGGGGGGGGAAAAAAA

Sequence 398

GCGGCCGGGTACAAAATTTAGAGGTTTCCCCTTTATCAACAAGAGACCCAGGTGCCAGCA
TGTTACTACCAGATCCAGTTCTTCTTAGGACAGTGTGGCTCAAAGGGATGAGACCTTCCA
GACACTGGTATCTGAGCATCTGTGGCCTGCCCTGAGTTGTCAAGATAATTTCTTATCTC
TGAAGGAGTCCAGACAGGAATGCTTCCACTGCTGGGTGGGTGCTCGCCCCCTTGTCTCT
TAAGCGCCCGGCTACCCCCCTTGTAGCACAGGGTGTCTTACACAGTTTATGGGACTTTT
CTGTGAACCTGAGGGCAAGAACCATGTNCCACTCCCTGCTTGTCTCTCAATATTTT

A

Sequence 399

CNGCCGAGGTACNCGGGGAGAGAGGAAAAGAACACAGATCTCGCATGGTTCAGATTTTTT
TTTTAGGTCCAGGAGTAAGATATATCATACNGAAAATGAAAATTATAATTCTTCTTGG

A

TTCTTGGGAGCCACATTGTCAGCCCCACTTATCCACAGCGTCTCATGTCTGCCAGCAAT
AGCAATTGAGCTTACTTCTTAATCTTTAATAATGGGTCAACTTTTGCCACTACAACTT

C

AGGGGCCCCACTTAATTCATGGANTCCACCTTTCTCTGGGAATTTTACAACAGCAGCAGCA
GGCTCAAATTCAGGACTCTCCAGTTCTCTTTATCAGCTCTAGACCAGTTTGCCTGGAA
CTGCTCCCAAAATCAGAATACCCCTTAACCAGGGAAGAGGCCAGTTTTGNGCCCAAAGGGA
GCCCCAAGGCAAGGGCCAAGGTTNGAATCCCNNTAACNGNNTTTAAAAACAACCCGCCTT
TAAGAACACAAACCCAGGNCCCCCANGACACCGTTGAATGCCCTTATTGTTATTTCTTC
CC

Sequence 400

GACAGACAGTGCTTGATGTTCAAAAAATACAATGCCCTGGTAATGTCTGCATTCAACA
ATGACGCTGGCTTTGTGGCTGCTCTTGATAAGGCTTGTGGTCTGCTTCATAAACAACAACG
CGGTTACCAAGATGGCCCAATCATCCAGTAAATCCCCTGAGTTGCTGGCTCGATACTGTG
ACTCCTTGTGGAAGAAAAGTTCCAAGAACCCAGAGGAGGCAAGAACTAGAAGACACACTC
AATCAAGTGATGGTTGTCTTCAAGTACCTGCCCCGGCGGTGAGCGGCNCGCCCGGGCAG
GTACGCGGGGGCTAACCCAGGCCAGTGACAGAAATGGATTGAAATACCAAGTGTGTGAAGC
TGAATGATGGTCACTTCATGCCTGTCTGGGATTTGGCACCTATGCGCCTGCAGAGGTTT
CTAAAAAG

Sequence 401

CGGTGGCGGCCGGTTGCCTTGATGTACGAGCAATTAGGAGAGTCACGAGGATGAAATA
GATGAACCCGACCATGCAGTTAATCACCACATCAACTACTAGCCAGACGGGATGAACCA

Table 1

CAGCGTCACACAATACAGTGTTCTGTTGTAAGTGTAAACAACACACTGCAGCTGGTAGTA
GAAGCCTCACGGGATACTCTGCGACAACCTACAGCAGCTGTTTATGGACTCACTAGGATTT
GTGTGTCTCGTGGTGTGCAACTGCAAACCAGTAACCTGCTATGGCCAATTGTGAAGAGAT
GGGAGTCTCCCCGTATTGCCAGGCCGGTCTCAAACCTCTGGGCTCAAGCAATCTTCCCC
GCCCACCTTCCCGAAGCCCTAGGATTACGGGAGTGAGCCACCGCACCCAGCCAGAAAAACG
TTTAAAAATTTGAAAACCTTACTTTTTTTAATGAGCATTTTTGCATCAAGGGGGTTAC

A

GGGACATTAGGCTTTTTTTTTT

Sequence 402

ATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCGAGGTACACATATCCTCTGTGGGAAAAA
CTGCTCTCAGAGTGTGCACTCTCCCCACAAGCCAGCGCTCAAACCTGGAAAAAGTATCTCA
ATGTCCTGAATGTGGGAAAAACCTTTAGCCGAAGTTCCTTATCTTGTTTCGGCATCAAAGAAT
CCACACAGGCGGAGAAGCCTCACAAGTGCAGTGAGTGCGGGAAGGGCTTTAGTGAGCGCTC
CAACCTCACTGCCCCACCTACGAACTCACACAGGGGAGAGGCCCTATCAGTGTGGGCAATG
TGGGAAAAGCTTCAACCAGAGTTCAGCCTCATTGTCCACCAGAGGACCCATACCGGGGA
AAAGCCTTACCAGTGCATTGTCTGTGGAAAGAGATTCAACAACAGTTCACAGTTCAGTGC
TCACCGGC

Sequence 403

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATTAAGTATTAATAATGAGGATTGAA
CTGGGGCAAACAGGTTATTGTGAAAACAGTCAATATGTAAGCTCCTCAAGGGAAATCAA
CTACTGTTCTCAAGATTAGAAGATGTNCACACTCTTTCATTACCTCCCTAAAGGAGGA
AACACCCATTAATTTTCCCTTATGGAATCAATATGGAGTGGAAATATGAAATGAGGAGAT
GTTTTAGAAAGCAGGACANATCTACCTACCATTACTGGAATTAATAATGTATCCTCTGGGC
CCACTCCATTGATTCCGATCTGAGGTGAGGAGGACTAAAAGCAGCAGCAGGTTACAGAAA
GACTGAATAAGATGAAAGTATGCTACGTATGTCTAGCTGGGGAAGGGGGATCTGAAAAA

A

Sequence 404

CCGCCCCGGGCAGGTACGGACGCCCAGGGATCCGCGCCGAAGCTAGCACGCANCTACCCA
ACAGTCTACACAGCNCGACCAAAGCCCCCGCTACCCAGAGGAGTCGCTGGTGATNGGGG
AGCTCAACCCTGTTNAGTAGCTCTGCTCATCAAGTGTCTGGAGAAGGAGGTTGCGGCATT
GTGCAGATACACACCCCGNAGGAACATCCCTCCTTATTTTGTGGCTTTGGTGCCACAGGA
AGAAGAGTTGGATTGACCAGGAAAAATTNAGGTGACTTCTCCANGGCTTCCAGCTTGGTC
TTTTT

Sequence 405

CCGCGGTGGCGGCCGAGGTACGCGGGGGGCGGCGGCGGAGAGAGCTGGCTCAGGGCGTCC
GCTAGGCTCGGACGACCTGCTGAGCCTCCCAAACCGCTTCCATAAGGCTTTGCCTTTCCA
ACTTCAGCTACAGTGTTAGCTAAGTTTGGAAGAAGGAAAAAGAAAAATCCCTGGGCCCC
TTTTCTTTTGTCTTTGCCAAAGTCGTCTGTAGTCTTTTGCCCAAGGCTGTGTGT
T
TTTAGAGGTGCTATCTCCAGTTCCTTGCACTCCTGTAAACAAGCACCTCAGCGAGAGCAG
CAGCAGCGATAGCAGCCGAGAGAGCCAGCGGGGTCGCTAGTGTATGACCAGGGCGG
GAGATCACAAACCGCCAGAGAGGATGCTGTGGATCCTTGCCGACTACCTGACCTCTGCAA
AATTCCTTCTCTACCTTGGTCATTCTCTCTACTTGGGGAGATCGGATGTGGCACTT
TG

CGGGGTNTGTGTTTCTTGTAAGAACTCNATGGAAACAGGCCTCCTT

Sequence 406

TCCCCGCGGTGGCGGCCGAGGTACAGTTCACAGTGCTTGATGATAATAAATGGTTATTTT
ACTGGTTCATGTATTTACTATATCATACTTTTTTTCATTAGAGTGTGCTCCTTCTACTTA
TGTAACAAAAAAGTTACCTCAGGGAGGTCCTTCTGAGGTCTTCCAGCACACGGCATTGT
TATCATAGAAAATGACAGCTCCATGTGTGTTACTGGCCATTACCACCTTCCAGTGGGAAG

Table 1

GATGTGGAGGTGGAAAGCATACTGATGATTTTGTCCCCGTGGAGGCCTAAGCTAATGTGT
GTGTTTGTGTCTTAGCTTTCAACAAAAAAGTTTAAAAAGCAAAAAAAAAAAAAAAAAA

A

Sequence 407

GTGGCGGCCGGTGTGCTCATCGTAGCCTCGGGTCGGGGGATGCGTCTCCGCTTTAGCGCC
AAGATAGAACTTCCTCAGACCACCGCCGCCGCCCGCGTACCT

Sequence 408

GTACCTCCCTGGCTGAAGTCTCTACATAGCTCTCAGGAACCTTCGAAAGGCATCCAAC
CTTTTACCAAACCTAAAGTTTTTTCCGATTGAGTCGCCTCATCTTCAGGAAAACCTTC

C

TCTTCCTTCATATAGTCATGCTTGTGTTATGGTCCCAGCCTACCGCCATGTTTTACAGA

A

GCCCCGGTTCGCCGGGGCTCCCGCGTACCTGCCCGGGCGGCCGCTCGAGGCAGGTACTGAA
TGACACATTACCTCCACACTCTCCCGGACTAGG; NGTCAACAGGGCCACAGGGTTGCTTT
CTGTCTTTGGTGGGGCAGGGGAGTTGACAGGGATGAGGGTCCAAGGAATTAAGCATGGAA
TGACAAGAAAAACANGGGAAGAGTTACCCTGTACATAGTAGGTTAACTTTTTTAAGGGT
TTGCAAGTAAGAGGNNTTTCGACCCTTTCNCTTGGCTGAGCCANATCNCGGGAACCTTGAG
AGCTTTTACTGGGATTTTCAATNAAAAAATTAACAACAATGTCAAACNNGGGTTTGA

T

NATTGGNTTAAAGCCTTTTTAAGATTCTTTTTTAAATAACATTTTTCCCCGAAAAAAAAA

AAAAA

Sequence 409

TTTTNGGGGGGAGTTAAATAAAATAAGCATGTCTNCATCCTTTATTCCTAAACATTTAC

T

TATGACAAATGTAANNACTGACAGAAATTTGAAAAATACCANGACACTTCTTAAATGATT
TCCCTTGGTTCAAAATTTACCCCTTCTTGGGTTTCTNTTGCTTTTCAAGGGTAATNTAA

A

CTCTTCTCTTTTTANGTTTGAAGTATGCAAGTGCCAAAGGATTCCNCTGTAGTCTTTCC

A

AAGGGGGGGAAAGGGGGTNTATANAAAAAAAAAAAAACACCTT

Sequence 410

GGGCAGGTACTGTGCAGTAGTAACCCATAATTCTAAATGAGGATTATGGATTTTTCTGGA
AGATTCTTTTTTCTGTGGAACATGATGAGAAATGTTTAGGAGAGGGGACATAGCCATTT
TTGTATGAAGACCAATTCAAGAAAAAATATATGTATGTGTGTGGGTGTATATGTGTGTA
TATATGTATAT

Sequence 411

GGTACGCGGGGTGCTGGGATNCAGGCACGAGCCAGTGCGCCAGCTGCCTNTGTTNTTT
TATTAGCTGNTCTGGACTGNGGGGCTCCTTGGGCAGATGCTGTATTATGGGGATAAGCCA
CACACTTTNTGAACTGGCCCGGTCAGGGGGGACATANCCATTTCTGTGCCCCCATCAA
NACCCACCTATTCTGAGNGTNNGCTCCTCCCCTGCTTGAGTNATGGCCACANATCTTGGC
TCGGNNCTCCTAAGCTGCATGNTGAATTCCTGGGACAACAAGACTGGCTTGTGGTTCCAT
TCTCCAGATCCTTGGGT

Sequence 412

GCCGGGCAGGTACTTAGAGTTTTCCAAGTATGTTCTAAGCACAGAAGTTTCTAAATGGGG
CCAAAATTCAGACTTGAGTATGTTCTTTGAATACCTTAAGAAGTTACAATTAGCCGGGCA
TGGTGGCCCGTGCCCGTAGTCCCAGCTACTTGAGAGGCTGAGGCAGGAGAATCACTTCAA
CCCAGGAGGTGGAGGTTACAGTGAGCAGAGATCGTGCCACTGCACTCCAGCCTGGGTGAC
AAGAGAGACTTGTCTCCAAAAAAGTTACACCTAGGTGTGAATTTGGCACAAAGGAG
TGACAAACTTATAGTTAAAGCTGAATAACTTCAGTGTGGTATAAAACCGTGGTTTTTA

G

GCTATGTTTGTGATTGCTGAAAAGAATTCTAGTTTACCTCAAATCCTTCTCTTTCCC

Table 1

A

AATTAAGTGCCTGGCCAGCTGTCATAAATTACATATTCCTTTTGGG

Sequence 413

GCGAGGTACCTAGTCTANATGAGTTTGATGCTTACAGTCAAGGCTATTAGCAAATATTCA
GGAAAAGTAAAGCCTAAAGAAGAAAAGAGGGAATGAATAGTTTGTCTAGAGATAATAAAA
GGAAGGTGAATTTTAAAAAGACAAAAATAANGCTAGAAAAGACTGAGTGGAGAAAGCCT
ACAGAATTTTCAGAAAGCTAAAGAAATTGGAAATTAGATTGAATATAGATAGAAATGGGAG
GACAATGCAGCCAATGAAAGACTGTGGGGACTAATAAAGGGAGAGCCCTGTGGTTTGGAA
AGTGTCCCTTAATCAGCCTGCAGTGTGCAAAACAGAAACCCAGAG

Sequence 414

GGTGGCGGCAGGTACGCGGGATCCAAGATGAATGTGCAGAGAAAATAAAGAATCCAAAGT
CATAGTCATGAGGACAGAATAAAGACATTTTATGCCTTTTTGTGTTTTGTTTTCTT
TTTGTGGAGAACAGGGTCTCTCTATATTGCCAGGCAGGTCTTGAACCTCTGGGCTCATA
CTGTCCTCTGCTTCTGCCCTCCCTAAGAGCTGGGATTACAGATGTGAGCCACCATGCCCG
GCCAGAATAAAGACATTTTAAACTAAAAAAGAGTTTGCTTTGCATTAA
TCTTTTTTCTTTTTTTCGTTTTTATTTTTAGTTTTTATTTTTTGTGAGACGGAGTC
TCACTCTGTCAACCCAGGCTGGAGAGCAATGGCATGGTCTCGGCTCACCAGCAACCTCTGCC
TCCTGGGTTCAAGTGATTATCCTGCCTCAGCCTCCTAAAGTAGCTGGGATTACANGTGTG
AGCCACCACGCTGGCCAGAATAAAGACATTTTAAACTTANGGAAAANAAAAAN
NNTNGNNNCNNCCCCCNNAAAAAAAAAAAAAA

Sequence 415

ACCGAAGACGAANGCCACTACATGCCCCGCGTACCTGCCCGGGCGGGCCAAAGGCCAAC
AAGGGNAGTGGGGNCGGGCTGCANGAATTCGATATCAAGCTTATNGATACANGTTGACC
TCNAG

Sequence 416

CCCCGCGGTGGCGGCCGAGGTACGCGGGGCTGCGGAGGACCGTGGGCACGCCAGGGTCCG
TGAAGGATCCCAAAATGGCTGGGCGAAAACCTTGCTCTAAAACCATGACTGGGTAGCTT
TTGCAGAGATCATACCCAGAACCAAAAGGCCATTGCTAGTTCCCTGAAATCCTGGAATG
AGCCCTCACCTCCAGGTTGGCTGCTTACCTGAGAATCCACCAGCTATCGACTGGGCTT
ACTACAGGCCAATGTGGCCAAGGCTGGCTTGGTGGATGACTTTGAGAAGAAGTTAATG
CGCTGAAGGTTCCCGTGCCAGAGGATAAATATACTGCCAGGTGGATGCCGAAGAAAAA
GAAGATGTGAAATCTTGCTGAGTGGGGTGTCTCTCAAAGGCCAGGATTGTAGAATA
TGAGAAAGAGATGGGAAAGATGAAGAACTTAATTCATTTGATCAGATGACCATTGAG
GGACTTGAATGAAGCTTCCAGAAACCAATTAGACAAGAAAAAGTNTTCTATTGGG
CCTANCCACCCATTGAGAATTATTAATTTGAGTNCAGGANGGAACCTCTGGCCCTTTGT
ATTACCCATTCTGGGCCTTTAAATATTATTTTCAAAAAAGGAAAAAAAAAAAAA
AAG

Sequence 417

GGCGGNCCTTTTTTTTTTTTTTTTTTTTTGTGAGAGGGAGTTTGTCTTTTTGCC
GGGCTGGAGTGCAATGGCACGATCTCGGGTCACTGCCACCTCTGCCTCCTGGGTTCAAGT
GATTCTCCTGCCTTAGCCTCTTGGGTAGCTGGGATTACAGGCGCCACCACCATGCCTGC
CCAATTTTGTATTTTAGTAGAGATGTGGTTTACCATTGTTGGTCAGACTGGTCTNGAA
C
TCCTGACCTCAAGTGATCCACCCNCCCTTGGCCTCCCAAAGTGTTGGGATTACAGGTGTAA
GCCACCGTGCCCGGCCATCAGTTGTATTTNTATATAGTAGCANATGAACAATCAAAATGN
GATTAANAAAAATGCCNTTTTAAAGCCTTAAAAAANTNTTANTGAATAAN
TTTAANCCAAAGGAGGGGNCAAACCTTTCCNTGGGAAATTCAAAACNCNTNTTTGGNA
NGAATTCAAAGNAGGNTGAAANCCCNCCCCCTTTTNCGGNGTTNANAAAAANANATTT
TTTANNGGGGGNCCCCNCCCAANNATANTCCNCNGTGGGGGGCCCTCTAAAAANAN

Table 1

TTTTTTTTTTTTNTAAAAAAAAANNTNTTTTTTTGGGNG

Sequence 418

CGCGGTGGCGGCCCGAGGTACGCGGGATTTTGAATGAATTCTCAACAAAATGTGCTAGCC
ACTGGGGACGCAAAACAAGTAAGATCCCTGTTGCAAGAAATTCATTTATNGNGAGGGAG
GTTGGCATGGAGACTAAAATTCTCAGGAAAATGAGATCCGTGTTAGATTAGAAGTCCTGA
TGTGAAATGGGAGGACTCAGGAAGGAGGATCGTCTTTACCTGAGGATTTCTAGCCAGAGG
TCCCAGATGCCTGGGCTGAGAACCCAGCGATAAGGGGGCGTCCCAAAGCAGACACAGGG
ATAAGAACAGAGGAGGCAGCAGCATTGCACAAGCCCCAGGCACAGTGGCAGTTAGGATGG
CTGGAGAGTAGGATAGTTCTATGGGTTGCCAAAAAATGTGATGTGCTTCATGTTTTCTC
TGACTCATGGATCTGGTAGAGACCATAGACATGATATAGGACTAAGTTGCCATTTTTCA
CANAGAGGAAACCATCCTTATGACTTACCTTAAAGTTTTTGTCTGTTTGAAGGAA

A

CCATGTGCTTCATGAAACCTACAGTTGGCCAGAAGAATGNTCCTGCCCCGGCCGGCCGCT
CTAAACTAGGGGATCCCCCGGCTGCAAGGAATTCGATTTCAAAGCTTATNGATTCCCG
NCACCTCGAGGGG

Sequence 419

CCGCGGTGGCGGCCCGAGGTACAGTATATTGACCTTAAAAATCAGTAAAGCAGTCATGGA
AATAACAGGTCGTGATTATTTCATGGGCACAACTGACTCATGGCTGGGGAAGAAGCAGC
CACCTTAGACCAGATGGACAAGCCAGATACTGCAGAGAAGTTTCTGGGCTTTTCGGGGAG
CTCTAGATTCAATTCTGTAAAGTTATGATGCAGTTTTCTCCTTCTCCTCTCACCTN

C

TNTGAGCACAGCTTTCAACAAAACTTTGCATACCCCGCGTACCTGCCCCGGCGGCCGCT
CGAGGTACTTCTCTGAGCATTGGCCTCTGGCTGGGATTATGCTTCAACAGTCTTGAAATG
AGGTCCCTGGCTCCCTCTGTTACAAAGTCAGGGAATGTGAATCAACCCGTGATATTCTT
TTGTAGGTCTCTTGGTATGTGTTGCCCAAAGGAGGCTTCCCACTAAAAATTCATAG
CAAAGAACTCCAAGGCTCCAAGAGATCCACCTTCTCATCATGCATCCACCTTCAATCATT
TCANGGGGCANGGAGTCCAAGGTGCCACAAGAGNGGTCTTCTGGGAAGATGGAGCATG
TACCTCGGGCCCTCTAGNACTAGTGGAT

Sequence 420

GAGGTACGCGGGGGTGGCGCCATTTTGTCTCGGCAGCGGTGGCCCGTAGCTCCATCGCA
TTTTATGTTTCTGGCGAGAAGGGAACGGAGTTTTCATCAGGTAGATTGGTTTTTGT

Sequence 421

GGGGCGGCCCGCCCTNCCCGTGAAAGACCTCCTGCTGGAAGACCTCCAGGATGGAGAAG
TGAGGCTGGGTGGCTCCCTGCGAGGGGCATTAGCAACAATGAGAGAATTAAAACTTCT
TCAGAGTCAGTTTCAAAAATGGATCCCAAAGTCAGACCCACTCGCTACAAGCCAATGACA
CTTTCAACAAACAGCAGNGGCTTAAGTGTATTTCGTCAAGCCAAAGAAACAGTTTTGTGTG
CTGCCGGGCAAGCTGGGGTGCTTGACTCCGAGGGATCGTTCTAAATCCCACCACCGGGA
GCAGAGAGCTACAGGGAGAAACAAAACCTTGAGCAGATGGACCAATCGGACAGTGAGTCAG
ACTGTAGTATGGACACNAGTGAGGTGAGCCTCGACTGTGAGCGCATGGAACAGACAGACT
CTTTCTGTGGAACAGCAGGCACGGTGAAAGTAACCGTCTGACAGAAAGCATGTGCACTT
CNGGAAGCAGGCCTGCATCTTACCTGTACCTGCCC

N

Sequence 422

ACTTCCCGCGGTGGCGGCCCGCCGGGCAGGTACGCGGGAAGTGGGGAATTCTGGCCCTAC
GTGCATTCACAGGCAATGATGGGTTTGTGTGTATGGTGTGATGAGATCCTCTACCTCATA
ACAAAAGGACAGTGGGTAGACTAAGGCAGTAGCTCAAAGGGCTTTGCAAAATTTTAAATAT
ATTAAACAAGAGGCATCTGCTAGAAAACATTCTATTGTATACATACTGAAAACCCATATA
AGGTCTGGATAATTTTGTGTTGATTATTCAATTGAAGAAACATTTATTTTCCAATTGTGT
GAAGTTTTTACTGTTAATAAAGAATCTGTCAACCATCAAAAAAAAAAAAAAAAAAAAA
AGTACC

Table 1

T

Sequence 423

NCCCCGCGGTGGCGGCCCGAGGTACGCGGGAGAAGGAGATTACCTCAACATAAGAACCGTA
TGTGAAAAGCCCACAGCTAACATCATACTCAATGGTGAAAGACTGAAAGCTTTTCCCCTA
AGCTCATGAAGAAGACAAGGAGGCTTGGTTTTGTGGCTTCTATTTAACATGGTAATGGGA
AGTTCTAGCCAAAGGAAGTAAGCAAAAAAAAAAATCGAAATTAGACAGGGGGAAGTAAAA
TTATCTTTTTGCAGATGATATGACTTATATGTATTATAGAAAACCTGGGCCAGGTGCA

A

TGGCTCTTGGCTGTAATCCTAGCACTTTGGGAGGCCGAGGTGGGTAGATTGCCTGAGCTC
AANAAGTTTGAGACCAGCTGGGCAACACGGTGAAACCCCCCTCTACTAAAATCCAAAAA
AAAAAAAAAAAAATTAGCCCGGCGTGGCGCATGCTAANGCANGGAGAATTGCGTGGAATC
TGGGANGGTGGANGNTGCANTGAGCTTGAAGATCTCCCCCTGNACTTCCAGCCTNNGGGG
ACAGANCCAAGACTNTTTTNTTCAAAAAAAAAAAAAACCGGGGGGNGGACCCCTCAAGAA
TTCNCCCCNCCCCCCCCGAANCCCTGGTTTGAAATTAATAAATGGGGTTCGCCCAAANA
AAGTNCNGCTTNTTCAATCAACAGGCCAAAAATTCCTTGTTTTTAANCCCTGCCCTT

T

AAAANTTTTAAAAAGGAAACTTNGNATTCCCGTTTCTTTTTTATTGCCTCCAAAAAAA
AAAAAA

Sequence 424

CCGCGGTGGCGGCCGAGGTACTGCCGAGCCGCTCCTCCCGCAGCTGTGCCGCTCCTTGT
CCTCCTCCTCATTGTCACTGCCAAACAGGTCAATGTATCATCCTCGTCATCCTCTGC

TG

GTGTGGCTGGCTTCCAAGCTGGTGCCCGTGGGCTACGGTATCCGGAAGCTACAGATTGAG
TGTGTGGTGGAGGACGACAAGGTGGGGACAGACTTGCTGGAGGAGGAGATCACCAAGTTT
GAGGAGCACGTGCAGAGTGTGATATCGCAGCTTCAACAAGATCTGAAGCCTGAGTGTG
GGTACCTGCCCCG

Sequence 425

CCTCCCGCGGTGGCGGCCGAGGTACTAAGTGGTTAAGGATGGAAAAGAGCTAACAAAGTGA
CAACAAATACAAAATAAGCTTCTTCAACAAAGTATCCGGCCTTAAGATCATCAATGTAGC
GCCGAGTGACAGTGGGGTATACAGTTTTGAGGTGCAGAACCTGTTGGCAAAGACAGCTG
CACAGCTTCATTGCAGGTTTCAGGTTGGTTGATTCTTGGGCTTTTCTTCATCATTAT

A

ATAATGTAGTTCCTGATTTTCATAAATGTATATGGGTTGTTACATCTTCTATAGGATAAC
ATGAGTCCGACATCTTCTGAATCAGCAAATTCAGAGGCAATACCATCTCAAGAAGCCACC

Sequence 426

CTNCCGCGGTGGCGGCCCGCCCGGGCAGGTACTGAATGTGGGAAAGCCTTTTGCCAGAAA
CCACACCTGACCAACCATCAGCGAACACATACAGGAGAAAAACCCCTATGAATGTAAGCAA
TGTGGAAAAACATTCTGTGTGAAGTCAAACCTCACTGAACATCAGAGAACACACAGGG
GAGAAGCCCTATGAATGTAATGCATGTGGGAAATCCTTCTGCCACAGATCAGCCCTCACT
GTGCATCAGAGAAGACACACAGGGGAGAAACCTTTTGGATGTAATGAATGTGGGAAAC
TTCCGTCAGAAGTCGGCCCTAATTGTTTACCAGAGAACTCATATAAGACAGAAACCCAT
GGGATGTAATCAATGTGGAAATCTTCTGTGTGAAGTCAAACTCATTGCACATCATAGA
ACACACACAGGGGAGAAACCCCTATGA

Sequence 427

CCCGNGGTGGCGGCCGGGTACCTTACTTAGCAGAGCACTTTGCAAACATATTACTTATTA
GCAGAGCTCTTTGTAGACCTTCCACATCTGGCTGTCAGATCTTAAGGTTGTGAATTTAGG
CTCCAGTTATATTCACTGGAGAGCATAATCCACACGGGTTATTTATAAATACAGAGCCT
CTGATTGGACGGTCTCCTGCCAAGAACTAGTAATACCCTTGTTTTAAATCTTCACAAGG
TAAACTTAAAAAGCCAACCAACAAATGCTCTCCATTCTACTTTTAATTGGGCCAAAC
AGCATATGCTACAGTAGTAACATGTTTTTCGGAGAGTGTAAAAACTCTGTTTACATT

Table 1

G

CCTCCTCGTGGGTTGATCGAAAATGTATAAACTGACTGCTTCTCGCCAGCCTCAGACAA
GAAAGAGTGAGCTGCTGGTACCTGCCCCGGGCGGCCGTCTAAAACTAGGNGGGAT
Sequence 428
GGCCAAATGCAGAAACGTCCCACATGCCACCAGGAGCAAGCTTCAAAATGTTTCAGCTTG
CGGGGCANTNNGCAGAGAAATNCCAGGGATGTTCTGAAGGCCTNGATGATACCANTATC
CTCATTATAAGATGAATGCACGGGGCCCNTTGCCTGGATACCGGCNAACCGNNTTCTNA
TTNTGCCNTTGNACAGCTCTCATTGCTGAGAGGCATAGACCTTTTGGANGATCATTCCAA
NGCTATAAGTCNTCTTAAGGAGCAAAAACCAGCTTCCTTGGTCTNTCTTGAAGNCCTTCA
ACTTTATCTTTCAACTACCAAAGGGAAGGTNCAGGAACTTTCTCAATAACCGANGGAC
CTTTAGGACATGAACCAGGTGNTGNTAGGGGCTGGAGGCCAGCCAGGGCAAGAAACA
NAATGGCCGATANCCGTTTTTGGGGTTCCCGCGGTACCNTTGNCCCGGGNCGGGCCGGCT
TCTAANAACCAAAGTGGAANCCC

Sequence 429

CGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGTGATCTCAACTGCTTTT
A
GCAAGTTGTGAATATACTTGGGCTTTCTGTCTTCCCCAAAAGCAATTTGGGATTATTT
T
CCTCCTTTTTTTCTGCATTTTCATCATAAATACTGTCATATTCATACACAGTAGCATCTT
CTGCAAGGGCCTTCTGGATTTCCAGTTTGGTCTGTTTCATGGCCTGCTTCTTAGCAGC
TT
CCCTCTGAAGGCTTTCACACAGAGGTCTCATCATCATCAGAATCATTCCCAAACA
CTGATGGTTTTTGCAAAACAGGGTGCAACTGCTGTGTTTTCTTTGGCAAATAAGCCCAT
ACTACCTGCCCG

Sequence 430

GTGGCGGCCGAGGTACAGACAAAACACTACAGACTTAGTCTGGTGGACTGGACTAATTACTT
GAAGGATTTAGATAGAGTATTTGCACTGCTGAAGAGTCACTATGAGCAAAATAAAACAAA
TAAGACTCAAACCTGCTCAAAGTGACGGGTTCTTGGTTGTCTCTGCTGAGCACGCTGTGTC
AATGGAGATGGCCTCTGCTGACCCAGATGAAGACCCAAGGCATAAGGTTGGGAAAACACC
TCATTTGACCTTGCCAGCTGACCTTCAAACCCTGCATTTGAACCGACCAACATTAAGTCC
AGAGAGTAACTTGAATGGAATAACGACATTCAGAAAGTTAATCATTGAAATCTGAACA
CTGGAGAAAAACCGAAAAATGGACGGGGCATGAAGAGACTAATCATCTGGAAACCGATTT
CAGTGGCGATGGCATGACAGAGCTAGAGCTCGGGCCAGCCCCAGGCTGCAGCCCATTG
CAGGCACCCGAAAGAACTCCCCAGTATGGTGGTCTGGAAGGAC

Sequence 431

GGTGGCGGCCGAGGTACCAAAACAACAGCCCTCCAAACAATGATGACCAGTGGAACAAACA
ATGGAGTCACCAAAACCTGGGACAGGCTCATGCTCCAGGACAATTGCTGTGGCGTAAATG
GTCCATCAGACTGGCAAAAATACACATCTGCCCTCCGGACTGAGAATAATGATGCTGACT
ATCCCTGGCCTCGTCAATGCTGTGTTATGAACAATCTTCGAGCGGCCGCCGGGAGGAC
GCGGGAGTTCAAGAAGCTGGTGGTCAAGGAGGAGGAGGTGGAGGTGGCAGTGAGGAATT
GCAGAAGCTGGAAGTGGTCATATGAACTACATTCAAGTAACACCTCAGGAAAAAAAGCT
ATAGAAAGGTTAAAGGCATTAGGATTTCTGAAGGACTTGTGATACAAGCGTATTTTGT
TGTGAGAAGAATGAGAATTTGGCTGCCAATTTCTTCTACAGCAGAACTTTGATGAAGAT
TGA

Sequence 432

GCGGCCGAGGTACCACTGCTTCCCGGGACTCTGCGTTGTTACCACTGCTTCCCGGGACTC
TGCCTTGTACCACTGCTTACTGCGTCCCAGCATTTCTTTCTTCTCGTTTCTGT
A
GATTCGGCTAATGGTTTCCCCTGGCATTGACTTCGTGATGTGTAAGTGAAGTCTCTT
CC

Table I

TGAAGGGGGAAACGCATTCCAGAGCATTTGTTCTGGGCTCATGTAGGAATAGATCTTTGAC
TGCCCGGTAAATCCCGGTACCTGCCCCG

Sequence 433

GNGGTGGCGGCCCGCCGGGCAGGTACAAATCTACCTCCCCACCAAATGTCCTTAGAGGGC
CAAAGATGGCCTTTGTTTCTTCATGATAACATCGCCTTTCTTTTTTTTTTTGAGACAC
G

GTTTCATTCTGTCACCCAGGCTGGAGTGCAGTTGTGCATTCATGGCTCACCACAGCTTGA
ACCCCCAGGCTCAGGTGATCCTCTCACCTCAGCCTCCCCAGTAGCTGGGACTACAGGGGC
ACACCATCAAGCCCCGGTAATTTTGAATTTTATAGAGACAGGATTTTACCATGTT
T

CCCAGGCTGGTCTTGAATTCCTGGGCTCTAGTGATTCTCTGCCTTGGCCTCCCAAAGTG
CTGGGATTACAGGCATGAGCCACCACACCCACCTGTCTATTTTACAATTTTCTTTGAG
CTCTTTTTTCCAGCAGTCATGAAGCTGGCAAATGGCAGAACTGGAGCTAGAACTGCTGA
CTCCCTTATCTTTTCCATAGCACCCCAAGC

Sequence 434

NCGCGGTGGCGGCCGAGGTACTTTTCTAAAAGCTCATCCACTCTATCATTTAGATATCCA
ATTTTCAGAATGTGCTCAACATTGGCCACTCCATCTGCCATTCTTAAGTCTCCTTGGG
AG

TCTCCCAGAAGAATTATGTTACTATTGTCTTTTAGTTGATTGAAATATTCTGTATTCCTC
AAGGCACCATCATGTTTGTTAAATACATGAATTAGTTCTCCTTTAAATCCTTTGAGCAC
C

CCCTATGAAAAATATAAATCTTTTGAACAGGCTTTAAAAATTCATTTGTTGGATTTTCA
TATTTTGGAGCTCTTAATTGATGTCACTATTATTCATCATATTTGTAATACATCTTTG
ATACTAGAGATCTCAAAGCACTTAAGTCCATCACATTCACCATAGCTAAGAAGGGCTCGG
AGAAGTAAATGATTTTTTAGATACTATTTTAAA

Sequence 435

CCCGCGGTGGCGGCCCGCCGGGCAGGACGCGGGGGTTGCTCAAACCGAGTCTGGAGAAC
GCCATCAGCTCGCTGCTTAAATTAACCACAGGTTCCATTATGGGTCGACTTGATGGGA
AAGTCATCATCCTGA

Sequence 436

GTGGCGGCCGAGGTACGCGGGGGAACACCACCCAGTGTGGAGCAGCCAGCCAAGCACTG
TCAGGAATCCTGGGAAGCACCTCCAAGTGACTGCAGATCTGGAATAATAAGTGNGGGGTA
GATCTGCCCATAGAGCTCACTTTAGACCGGCCTATACTCCTACAAGGAATTGNGGTAGGG
ATCTTNTACTCATCCTTGGCACAATAAGAATGGCCAATGCCCTTTCTAGTTGTTTGGGGG
AAGGTCTTTGAAGGCACCATTTNCCCCCATCCCCCTGGGGGAAGAAATGGGGTCCCTAAG
GTAAACGCCANGGTTTTTTGGGGGTNAATTTGCAAAAAATCCCCTTTTTNGNGGGNTANNA
CACAAATGGGCTNGGCAATTTNTTTNTTTNCCCCAATTNGNTCAAAAANGCCCAANAAAAT
TTTTTAACCGGGGTTGGGGGGGGGCAAAATTTTTTGGGCCANNTTGGCAATTCNCNNGG
ANAAAAAATTTCCAANGGGGCCNGNNGTTCAANTTTCTTNTAACCCCGTTTNAACCT
TCNCCCCCNNGTTTNTTTTTTGGANCCCTTAAAAAAAACCATTTTTTTG
GG

Sequence 437

GGCCGAGGTACCTTTTTAGAAGAGAAAAGAATCTTGAATTGTATATATTTATTTTGCTT
T

ACAGAAAAAATGGTTTCGTAAATAATTTGCCTATTTTGGTTAACATAGCACATGGAGAT
AATCATCTGAAAGTTATAGGGCACTGCCACTGCTGAATCAAGAGCATGCCCAATATTTGA
GGTGGCTCTGATTTCTGGCAGCTGAACTCGGGTAGTCCAGTGGCCTAGCTGGTCCTGCC
CG

Sequence 438

CGGGCAGGTACGCGGGGAGGTGCCGCTGTTGCTGCTCGTGTGAATCTAGAACCGTAGCC

Table I

AGACATGGGACTGGAGGACGAGCAAAAGATGCTTACCGAATCCGGAGATCCTGAGGAGGA
GGAAGAGGAAGAGGAGGAATTAGTGGATCCCCTAACAAAGTGAGAGAGCAATGCGAGC
AGTTGGAGAAATGTGTAAAGGCCCGGGAGCGGCTAGAGCTCTGTGATGAGCCGTGTATCC
TCTCCGATCACATACAGAAGAGGATTGCACCGGAGGGAGCTCTTTGGACTTCCTTGGCAT
GCCGAGGGGACCCATTTGCGTGGGCCACAAACNTCTTTAAACAACCTTGAAATAAAAT
GTGTGGGACTTTAAATTTACCCCAANGTTCTTTCANTNAATTCCTGGGGGGCATTCAAG
AAATAATTTTCTCTTTATTGGGGTNTTTGGGGAATNNTAACCCCTTCGGGGCCCGG
CT

TCTTAAGAAACCTTGNTGGGGGANTCCCCNCGGGNCCTTGNCAAGGGAAATTTTGGAT
ATTCTAAGGCCTTAATTCNGATTACCCCGNTTCTAANCCTTNGAANGGGGGGGGGNC
Sequence 439

CGAGGTACTCTGTGATTTACCTAGATTTGGAGAAGGTGAGGGAGGAAAGGCTGTCCTNT
TTGATCCCATACCATGCAGGGGCAAATGGCTGCCAGCATAACAAAATAAGAAGGAAAGAA
AGAAAAGTGGGCCAGGCGCAGTGGCTCACTCCTGTAATCCTAGCACTTTGGGAGGCCGAG
GTGGGCAGATTACTTGAGGTCAGGAGTTCAAAACCAACCTGGCCATCATGGTTGAAACCC
CGCCCCACCAAAAATACAAAAAATTAGTGGGGCGTGGATGGTGTATGCCCTGTAATCCCA
GTCTACTTTGGGAGGCTGAGGCCAGGGAGAAATCNGCTTTGAACCCAAGTAGGCAGNAGG
GGTNGNCATGTTGAGCACGAGTATCGTTGCCCACTTGCACTCCAACCTGGGCCGACAGNA
GTCAAGTACTCTGGGNNAANAAAAANATAAACAGGAAAAAAGNGAAGGNAAGGGAA
GGGGGGAAAGAAA

Sequence 440

GGGGCGGCCGAGGTACGCGGGATGTCTAAATATCTTGTA AAAAGTGTTAAATAAACAA
ACCCAGTCAATTA AAAATTTTGACTGTTATTGAGAAAACCTCAATGAGGGAAATAATAAG
ATCTATAAAGGTCTTAAGAAAAATATAATTTGAAAAAACATGTGGCTGAGTGTGGTGGC
TCACGCCTATAATCCCAGCACTTTGGGTGGCCTAGGTGGGCAGATTGCTCGAGTCCAGGA
GTTTAAGACCAGCCTGGGCAACATGGCAAAACCCTGTCTCTACAAAAAATTAGCCAGGTG
TGGTGGGACACGCCT

Sequence 441

GCGGTGGCGGCCGAGGTACATTGTAGCTTTGAACTCAGTGTTTAAAAATTCAATCTGGTT
ACACACTCTATCTTCTAGATCCCTTGAGACACTGTCTTCTTGAANAAGNCCAGGTGAA
ATGGCATTTCACTGTGGAAGGATTTTCTCCAGGGAATTCTTGGTGACCTCACTCATGAC
TGCCCTCTGTGTCTCTGCTGTTCCGAAAAGCTGGTGACCAGGCTGATTTGTTCTTCAGAA
GTCTTCCTGTCTGCCCCCGCGTACTGTTCTGCAGGTTAAGGCAGGACTGGAACCTCTCC
ACAGCTTGACATAGTTTTAGATTCAACACTAATCTCTCCGAGTTTAAGATGTGCCTGG
GCAGCATAAAGCTGTGCTTCTTTGTTCTTGCCTTTAAAAATGATCTTTGCTAAATC
C

AGCATATCCCAGGCAAGCTCTAGGTTCCCAATCTCCTCCTCATTTTCTTGAAGAGAC
TTGGTTTCAAGGACTGAATCATTGGCAT

T

Sequence 442

TGGCGGCCCGCCCGGGCACGTACTTTTGCTGCTGAGGAATGGGAATCAAAGAACGTAGT
CTCCTGGTAACCACCTCAGATCTCTATTATTAGGCTAGATGTNGNCNNGTACTCCCCCA
GCTTCTTGCTCNNNACCCTGCACTGTAAGTTGCCCTTCTATTAGCAGCCAAGGAAAAGGG
AAACATGAGCTTATCCAGAACGGTGGCAGAGTCTCCTTGGAATCAACCAACGTTGCTAT
GAAATATGCCTCACACTGTATAGCTCATTATAGGACGTCAGGTTTGTGAAAAAAGTGN
GGCAAGACATGATTAATGAATCAGAATCCTGTTTCATTGGGTGACTTGATAAAAGACTT
TTTACTTTTANAAAAAAAANTGTCAANAAANANGTTCCCTNNGCNCGGCTCTAAGAACT
AGTGGGATCCCCCGGGGCTGCAGGGAAATTCGNATATTCAAAGCTTATCCGATACCCGG
NNGAACCCTCCGAGGGGGGGGGCCCCGGGNAN

Sequence 443

Table 1

CCCGCGGTGGCGGCCGAGGTACATGAGAGACACTTTAAGCAGGCTCACAGGAATAGAGTG
AGTGCGGACTCAGATTGTTTAAGCTATCTCTGAACCCATTCTACTGCGTTTAAGTATT
T
TATTGGTTTCTAACTACTACCACAGACACGGATACCTCACAGGTTCCATTATTACTCAC
A
GCGTTGTGGTCCGGGTTTCATCGCCATCCTGCTCCACGCTGTCATAATCCTCACGCATCCG
CGCTCGGGACCCCTCTTCTATAAGGGACATACACGAGATCACCGAAAACCTCTCCTTTCT
CCCATTGTTCTATGAGGTGGTGGGACTCCAAAACCCGTAGCTCCTGCCCTACTAGGC
CACTCTACCCCAT

Sequence 444

CCACCGCGGTGGCGGCCGAGGTACCCAGCCCCACCCAGGCAAACAGCTCCGACATGTTTC
GTAAGTGAGACAAGCCAGTGCAAGTTTTTTTTTCTTTNNTTTTNGNCTTACCTTCT
T

GCTTAATGGAATTGTTATGGCTAAGCACATAJAAGGCCAAAAAAGGAGTTTTTCAAACCC
AGCAAATCAAGTGCTTGGATTCTGAAGTGCCAAAAGAAAAGTGCATTCCCCTCTTAAGT
AAAACCGAAATGAGTTTTCTTAGGTAAATGTATTCATCAAGCCCAGNATATAGAAAATAA
AACCCAGGTTANTGGTGNAGCCGTTTAGGTACCTGCATCATTTTCCAGGGAAAGATTCA
AACCAAAAATACCAGTNCCCAGNCCAGGACTCACAATGTGTTGGANTAATATTATTATTA
AAAGCAAAAGGAGGCCCNCCCCACCAAGCCCAAGCAGCTGGGNTGAAAAATAATCAA
GGCCTGGTCCCACNCCCGTNGGGTAATGCCCAAATTCGGGGGGAAAAATATACCTNCCC
TTTGGNAAAAAACCTTGGGAAAGAAATCTTACCCTTNGCCTTGGGGAAAAAAA

Sequence 445

TCCCCGCGGTGGCGGCCGCCGGGCAGGTACTTTACTAAAATGACTGCATTCTTTGGATTCT
CTTCAGTCTATGGTTCAAGTCACTAAAGATTCATTTTTGTGAGTCCTTATGAGAAACA
G

NAGTATGAATCTTGACGGTTTCTGCCCCGCTAATGGCAGAGCTCTCTGACTTGGGTGTA
TGCTACCAGGCTGGGTTCAAGTGAGAAGTTCTGGTCAGTCTTCTGTGGGTGAAGGTTCA
ATATCAATCTGTTTCAAAGCCTTTGTGATGCTATTTGAATCTTGCTCGGTATATGCC
A

CCAGTGGGTCAAGTCTGGGACCTAGGTGGTGAGCTATCCATAAGTTCATTCTCAAACC
GTCTTTACTGCACTGTTTAGGGTCAGATACNCATTATATATACNACTTTGGGTGAGCT
CA

GGAGTTTATAAGCTTTATGGGCTTTGGTGTGTTTATTATAAACAGGAGTTTATNGAAC
T

TTATGGGGTTTGCTTCCTCTTTCTGCCAGGTTCTTGGG

Sequence 446

GGTGGCGGCCGAGGTACGCGGGGAGACACAACCTTCCTGGGCTTAGATATTTCAGAATATC
ACAATAAACTCTTAAAAATTTCTGAAGGCTGGACACCGTGGCTCACACCTATAATCCCA
GCACTTTGGGAGGCTGAGGCAGGCAGATTGACTGAGCTCAGGAGTTCAAACCCAGCCTGG
GCAACATGGCGTAACCTCGTCTCTACAAAAAATGCAACATTTGCTGGGCTTGGTGATGT
GTGCCTGCAGTCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATCGCTAGAACCCATGAGG
TGTAGGCTGCAGTGAGTCATGTTTGCAACCACTGCAGTCCAGCCTGGGTGACAGTGTGTAT
TAGTTTGTTTTCTGCTGCTGATAAAGACATACCTGAAACTGGGAACAGAAAGAGGTCTA
ATTGGNCTTACAG

Sequence 447

CGGCCGAGGTACGTTTTGTGACAGGCAATAAAATTTTAAGAATTCTTAAGTCTAAGGGAC
TTGCTCCTGATCTTCTGAAGATCTCTACCATTAAATTAAGAAAGCAGTGNGCTGGNCGA
AAGCATCTTGAGAGGAACAGAAAGGATAAGGATGCTAAATCCGTCTGATTCTAATAGNA
GAGCCCGGGCTTCACCNCTTTTGGGCTTCCGATATTAATAAGACCAAGCTGAGTCCTCCC
TCCCAATTGGAAATATGAATCATCTACAGCCTTCTGCCCTGGTCGCATAAAATTATGT
CT

Table 1

GGTGTCTCAAGGCAATTAATAATGATTGTTTTAACACCAACAANAAAGAAAACATTATTA
T
CACNAAAANTAAGGTNCCCTGCCCCGNGGCGCTTCTANGAACTTAGGTGGGAT
CCNCCCCGGGNGCTGCAAGGGAAATTANGNATTATCCAAAGCCTTATTCGAATAACCCGTC
CGAACCCTCANAAGGGGGGNGGCCCGGTATACNCCAAGCTTTTTTGTTCCCTTTTA
AGTGGAGGGGTAAANTGGCCGCGCTTGGGCGTAAATAAATGGGACNAATAAGCCTGG
TTTTCCCTGNGGNGGANAATTGGTTNTTCCCGCCTACCAAATTCACCACNAAACAT
TACCGAAGCCCCGGGGAGCCAATAAAAAGTTGGTANAAAGCCCTGGGG
Sequence 448
CGGNGGCGGCCGAGGTACTTTTTTTTTTTTTTTTGTAGTGTCTGATGTCTTTT
CTAACAAATCTTGCCTGCCCAAAGTCTCAAAAACATTCTACGTTTCTAGATTTTAA
G
CTTTAGCTTTTGTGTTGGGACTATGATCCATATTTAGTGAATTTATTTTGGGGGGGC
A
GAGTCCATGTTGCCCAAAGTGGTCTGGAACACCACACCCAGCTAATTTTTGTGAATTGC
GGGTACCAGCACACCGGCGCGCTCTGGACTGCGCCTTCTACGATCCAACGCATGCCTGG
AGTGGAGGACTAGATCATCAATTGAAATGCATGATTTGAACACTGATCAAGAAAATCTT
GTTGGGACCCATGATGCCCCATCAGATGTGTTGAATACTGTCCAGAAGTGAATATGATG
GTCACCTGG
Sequence 449
CGGCGGCCGAGGTACAAAAAGCAGGGGGCCAGCCCCAGCTGTTGGCTACATGAGTATTTA
GAGGAAGTAAGGTAGCAGGCAGTCCAGCCCTGATGTGGAGACACATGGGATTTTGAAAT
CAGCTTCTGGAGGAATGCATGTCAGGCGGGACTTTTTCANAGAGTGGTGCAGCGCCAG
ACATTTTGCACATAAGGCACCAAACAGCCAGGACTGCCGAGACTCTGGCCGCCGAAGG
AGCCTGCTTTGGTACCTGCCCGGGCGCCGTCGATCTCCTTGTGTTCAAGCAACTTCTTG
CGGTAGTCTGAAGCGCCTTATCTCTAGGGTCCGCCATGATGAGAACCCCGGTACCTGC
CCG
Sequence 450
NGGTGGCGGCCGAGGTACTCCCTACGGCACTAGTCTACAGGGGGAAGGACGCTCTGTGCT
GGCAGCGGTGGCTCACATGGCCTGTCTGCACTGTAACCACAGGCTGGGATGTAGCCAGGA
CTTGGTCTCCTTCCCGCTCAAGAGATAGAAAGACCAGTCTTGTGAAAGACAAGTCTGA
ATGCTCCACTTTTTCAATTCTCTCCATTCTCAGTAAGTCAACTTCAATGTCGGATG
G
ATGAAACCCAGACACATAGCAATTCAGGAAATTTGACTTTCCATTCTCTGCTGGATGACG
TGAGTAAACCTGAATCTTGGAGTACCTGCCCC
Sequence 451
CGAGCGGCCCGCCCCGGGCGNGGTACAAATGCGTTTANGAAATGTTAGTATAAGGCTGATCT
GGACCCAAACTAAAACAACGTTAATCCTCTTCAAATCTAATTTAATATAGGGAATAAGAT
TATTGAAAAAAATTTTTTCTGATTTCTTTTCTGAAAGGTTTTTTGTAGAAACCA
TGGTAAAAAGGGAAAAGAAACCTTTGACTGGCGGGGCGAGGGGGAATACAAAAAAAAT
CCCTTGATTTTAAAAATACTTGAATATCAAACCTCAGAAAGAGTTATTTTGTGAAAGA
GGCAAAATTGGTCTTGAGCTGCTTCAGTCTATGTCTGAAGGTTTTACTGAAATTATGG
TC
CAGTTTTAGGAGAAAAATTCACAGAAAAGTCAGATTGTAGATTTTGAGAAGGAAACTCTG
AGGTGGTGATTTTCTCAAGGTATGTTATGAAGCTCAATGAGGGCCTGAATTGCTTCT
TCCACAGATCCCAATTGAATGAGCGCCATTTTGCATCTTTCTGAAAGAATTTAAAA
Sequence 452
GGGGCGGCCGCTAATGTNAGAAGTTAAGTNAGAACCTATATTGTACGAGGAACAAAAGCC
AATCAGTGTCTTTTTGTCTTTTTTACATAAATTTTACTACAAAAATTNATATATGGA
TTTTGAATTTCCAGTCAAACCAAATTGTAAGAACTGTTTCATTTGGTTCTATATTATGAT

Table 1

ACATAATTTATCTATTATATATTTACATTAAATATATGCATATATAATGGATTTAATTT
CCTTTNGGNACCCCATATNTAGAAGNNTCTTCATAANTTAATAAATAATCTAGGGCCAG
CATTATGTTTGCTAGACCTGGNTTTGGCTCAATACTTAAAGTTAAAGTTTCTGTCTTT
T
TTCTTGGACTTGAACTGCCTANAGCGTCAGCCTCTCTGTTATTTNTNTCTATTTNCTT
T
TTCCCCATCAGTCTTTTAGCCACTTGAAGCCAAATCTTAGTTTCTGTCCTAGTNGA
T
AAGAGTAAAAGGGGAAGGAG

Sequence 453

ACGGATACCCTGTTCCGCCTTTCTCCCTTCGGGAAAGCCGTGGCGCNTTCTCATAGGCT
CACGGCTGNAAGGTAATCTCAGNTTCCGGTGTAAAGTTTCGTTCCGGCTCCAAGNCTGGGCC
TGTTGTGGCACC GAACCCCCCGGTTTCAAGCNCCGAACCCGGCNTGCGGCCCTTATCCC
GGTAACCTATACGTCTTTGAGGTCCCAACCCCGG

Sequence 454

NGAAGGCGGACGCCCCGGNCAGGTACGCGGGGACCTTTNACGGGCGGGGGGAGCTGAGGCT
CCTGNCGNTATCTNTGATCCTTGCACCCTGGCAGGAAGNTGGTAGGGGGNACTNTAACGG
GAGGNTNACATATTGCAGAAAAGAAACCACTTTGGNGNGTAAGACTTGGAAGAAAGTA
ACCGGTCACTTTGGAAACAGGGGTGGGGAAGAAGCTGCCTCTCTTTTGAACCTNTCCN
AGGGACCAANTCTAACCCAGGTGAGGNNAACNTGGTNGATGTAAAGCCGGTGGCTTTGG
AGGACAGAATCATCTAAGTGGGAANAAGATACACTAGGAAGGGNGCTGGGGGGANTACCA
TCAAGAGGGAGGNGGGGATNACCTTCAGGCCGGGGGCTTNCGGNNGGGATGAAAGAAGGA
ATGGGNCCGGACAGTTTGNNGGTNGGAGGGTATGAAGGCTTGGCNAATGGTGGGGAAT
TTTGGTAACNTTCGGGCCGGGTTTTTGAANCTNAGGGGGGANTCCCCCGGGGCTTNGGA
AGGGGAAATTTTCGANTAATGCAAGGCTTAATANGAATTACNCGGGGGGACACTTCGGAG
GGGGGGGG

Sequence 455

CCCGCGGTGGCGGCCGCCCGGGCAGGTNCGCGGGGAGGATCTCTGTCTTTTGTTCCTCA
CCTGTCTGCCTGTCTCCTCTCCTTTCTGCTGGGGGGACTGTCCAGAAGACATCATCGT
CCAGTTCCTCTGCATTTGAACAGCTGTNCCCCACCCCTCAATACCGTTTAGAGCAGAAG
CCAGCAAATACTAATCGGTACAGGGACACGATAGAACTATTTTCGGCTTCATGGGCCACA
CAGGNTTCATTGCAAGCTCCTCAAATNTGCTGTTTGTAGCTAAGGAAAGAANCCATTAT
ACCNTGTGTNAANCAAAAATGAAATATTGGCNTGTGTGCCAATAAAAAACCTTATTNACA
AACATTAATNGAGTNGGGCNTGGATATGACTTCACNANTACTGGTTAGTTTGTACAACC
CCCTGGNTNCTAGNAGTTAAAAATCCCAAACTNCTTATTAGTCCCTCCC

Sequence 456

CGGCCGAGNACAACATGACATTTTTAACCAATCCAATCTAAAAATGTTGCCAGAATCCAC
CTGTGGCCCNAAATCGNGTNTTGGTTCCTCTTTCTACTCCNCTGCAGANGACCAACCTG
TCCCCTGCCACTTTCCTCACTGATATTGGGAGGAGGGCAAGGCCAGCCGAAGTTCCAC
TAAAAATGCCCCAGGAGAATAGGCACCGGCTGGCTTGCCAAAGGGTTTNGGGTTTTATT
GCTTTCTGTTTTTTCTTTTCCCCGACAGCACAAAGAANGTAAAGGGCAGTTAATTGGAC
AGAGTGTTATTTTAAACATCTCTAATTGTAAATGNAATGTGGTTGGTTGGTTTCTA
C
TGCAATTGGTNGAAGCCATGCCGGNNGGGGAAAGAAGAAACNTGACCCCAAGGNTAATTG
AAAATNGGGAGNCCCCCTTC

Sequence 457

NCGATATTACTGTGCGAGAGGTAAAGGATATAGTGGCTACGATTACNGCCTCTCT

Sequence 458

CCCCGCGGTGGCGGCCGCCCGGGCAGGTACACGACAAAACCTACAGACTTAGTCTGGTGGG
CTGGACTAATTACTTGAAGGATTTAGATAGAGTATTTGCACTGCTGAAGAGTCACTATGA

Table 1

GCAAAATAAAACAAATAAGACTCAAAGTCTCAAAGTGACGGGTTCTTGTTGTCTCTGC
TGAGCACGCTGTGTCAATGGAGATGGCCTCTGCTGACTCAGATGAAGACCCAAGGCATAA
GGTTGGGAAAACACCTCATTTGACCTTGCCAGCTGACCTTCAAACCCTGCATTGAACCG
ACCAACATTAAGTCCAGAGAGTAACTTGAATGGAATAACCGACATTCCAGAAGTTAATC
ATTTGAATTCTGAACACTGGAGAAAAACCGAAAAATGGACGGGGCATGAAGAGACTAATC
ATCTGGAAACCGATTTTCAGTGGCGATGGCATGACAGAGCTAGAGCTCGGGCCCAG
Sequence 459
GGCGGCCCGCCGGCNGGTACGCGGGTCTGTGNGCTGGTTAGTGAAGGCTTTGTAGCTGAGC
AGTTTCTAAATAACACAGCCACTCACTGACATACCATGGATTATGTGAACCTAATTCAA
CGGTTAGGAAGGAGAACTTTGTGTCTTTTCGGAATAATCATTTTAGCACCATGACCA
AATACAAGGGTCACTGTATTTGTTGGTAACGGACCGAGGGGTTTCTTACTGAAGAGAAAG
TTGTTTGGGAAAGCCTACACAACGTAGATGGTGATGGAAATTTCTGTGACTCAGAATTTT
ATCTTCGACCTCCTTCAGATCCTGAACTGTATACAAAGGACAACAAGATCAGATAGATC
AGGATTATCTTATGGCATTATCTCTACAACAAGAACAGCAGAGCCAAGAGATCAATTGGG
AACAAATCCCGAAGGAATCAAGTGATTGGAAGTGAAGAACTAGCAAAGAACT
Sequence 460
GGCGGCCCGGGTACGAATGTGCAAATTAAGCATGGTAACTGATATTTACATAAATATCA
AACCAACAATTAGTTTATACATTGTCAATGACCTTCTAAGATATGTCATGAGTGGATCC
A
AGAATATCTTTCCCCCAATGGAGAAGGTATTAGAGGGCTAAATCCGACACTTTAAATG
ACACACATCATAGGCTTTACCTGTTTGACCACTGCCTCAAATGTGTGAGATGTGATT
TA
TGATCCCGCGTACCTGCCCCGGCGCGCGCTCGAATAGACTTCAGGGAAACAACACGTCCT
GAAAGAAACATGATTCCCCCTCAAGCCACAAAGGATTTTCTCATCAAGTGTTCACCTCT
GCATTAGATTTGGACACAAGAAGAGGAGAGCATTTACTCAGGTAAAAATAGTTCTCTTAG
TCTCTTCTCTAGTTACTAATTTTAAATTTAAAAATACAATTAAGTATGATCTAGCTGATAA
AAGTCACAAGACAGAAATAAGCTAAGTTCTCTCTTCTTCTTAGGGAACGCTGGTGGCAATT
CACCA
Sequence 461
GAGTTTGAGAAAGCTGCAGAGGAGGTTAGGCACCTTAAGACCAAGCCATCGGATGAGGAG
ATGCTGTTTATCTATGGCCACTACAAACAAGCTACTGNGGGCGACNATAAAAAACAAGAAC
GGCCCCGGGGATGTTGGACNTACGGGGCAANGGCCAAGANTTGGANGCCTGGGAANGAG
CTGAAAGGGACTTCCAAGGAAAGNANGCCATGGAAAAGGCTNTACATCAACCAAAGTATG
NAAGAAGCCTAAAAGAAAAAAATACNNGGANTAAATGAGAGCACNTGGATTTTGGGNTAC
NTGTGCCCCATGTGTTTATTCTCTAACTGGAGNACAATTGCCTNGNNTTTTCTAAN
N
ACCCGNTGGAATGTTGGGAAATCTCTGGGGAAAAATAANCCAGNTAAACCAGCTACC
TCAAGGGCNTGCTCACCCATACCG
Sequence 462
AGCCCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATATTGTTCTGATTGCTGATGTG
TGGACGGATACCAAGCGAGTGACACGAGAGCTCAAGGACAGGCTACAATACAGGTCAGA
GACAATGGCTTATAAAGGTTTAGTGTGGTCTCAGGATGTGACAGGCAGTCCAGCCTGACC
TTTCTGCACACTCCAGACAACTTCCAGACAAGCTCCTTTGTGCTCTACGTGGAGAGG
GCGTGGAAAGTTATCACATTAAGATGGAGGATTTAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAGTACCTGCCCC
Sequence 463
GCGATNCCCCCTGGGAAGCTCCCTCGTGCGCTCNTCTGNNCCGACCCTGCCGCTTACCC
GGATACCTGTCCGCTATTCTCCCTTCGGGAAAGCCGTGGGCGCTTTCTTCATAAGCCTC
ACCGCTGTAGGNATCCTCAAGNTCGGGTGAAGGNNCGTTTCGCTCCAAGGCNNGGGCTGG
NNGNGCACNGAACCCCCCGNNCAAGACCCGACCCGGTGGCGCTTAAACCCGAAAACT

Table 1

AATNCGNCNTGGAGGTCCCAAACCCCGGGNAGGACACCGACTTATCCGGCCACCTGGGC
AGGCAGCCAACTGGGGTAAACAAGGGATTAAGCAG

Sequence 464

CCCGCGGTGGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTGGTTT
T

TTTTTTTTTTTTTTTTTTTTTTTTTTTTTNAACNGCNGCCNCCNCCATGAAAGAGGG
GCCNCCACATNTTATTGCATACNCAGGGGAATAACTTATTNTACAANGAACNCTCCTCC
ATTNGGAGACCATGCCCACTTACAGAATGCANCCGNAATGCGGTAAATNTATTTACAGA
GGNTGGGGNGCAAGATGAGANAAGTTTCANCCCCAGGAATTTGAAGNGAGAATGATCTAC
AAATTNTCCTGACAAGNGCAACCGGGCTTGNCTAGNGNGGNGCTGAAANAATTCCTGGC
AAANCGTAGGGGGAGATTAAATCTCGGAATTGACAGCAAGTTTGGGGACAGNGCAAAAAAN
AGAGGGGTGACCCTGTGAAATTTGGTGCCTGGGGGAACCTCTTGANGCCCCAATGNNGGG
GCACCNCTTNGAGANGATNGGGNTAAATTTANGGGGGGATNTTTTAAACCCCTNTCCNCC
CCAACCAAAAAAGGG

Sequence 465

GGCGGCCGAACGCAGAGAAGGTNGANGATTGCACCATGCCGATTCGTGAACTGTGAATT
CTACCCGGGAAACTCCTCCCAAAGCAAGCTTGCTGAAGGGGAGGAAGAAAAGCCAGAAC
CAGACATAAGTTCAGAGGAATCTGTCTCCACTGTAGAAGAACAAGAGAATGAAACTCCAC
CTGCTACTTCNAGTGAGGCAGAGCAGCCAAAGGGGGAACCTGAGAATGAAGAGAAGGAAG
AAAATAAGTCTTCTGAGGAAACCAAAAAAGGATGAGAAAGATCAGTCTAAAGGAANAAAAAN
TTTTATNNNATTAAGTACCTCGGCCCGCTCTAGAACTAGTGGGATCCCCCGGGCT

Sequence 466

TGGCGGCCCGAGGTACGCGGGGAGGTGGTGCGCGCTTCTCCCGAGGTGGAACGGGCGGC
AGTCAAGCGCCGGCGTTCTCTGCCGTCACCTTTCTTGC

Sequence 467

GCGGTGGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTGGAGACAG
AG

TCTTGCTCCATCACCCATGCTAGAGTGCAGTGAGTGATCTCGGCTCACTGCAACTTCCG
CCTTCTGGGTTCAGCTATTCTCCTGCCTCAGCCTTCCAAGTAACTGGGATTACAGGCAC
ATGCCACCACGCCCACTAATTTTGATTTTAATANAGACAGGGTTTGACCATGTTAG
C

CAGGCTGGTCTTGAACCTCCATCAGGNGATCTGCCCTCCTCAGCCTCCCAAGTGCTGAGA
TTACAGGCATGAGCCACCGCGCCTGGCTGATTGNGTTCCTTCTCACAGATTTGTTT
CT

GTTTTGTGTTTCTGAACACTCAGCTGGACTGCATTTCCAGCTTCCCTTGCAATTAA
GT

CACAAGTAGCGCTGTGACTGGGTCTGCCCGGTAGGAAGGTAAGCAGAAGTGAATGTGTA
TCACTTCTAATGGTGTGGGNTCCCNAAACCTTCTAAAGGGTATGTTCCCCCTTTT
TT

T

Sequence 468

TTGGAGCTCCCCGCGGTGGCGNTCGGTGTGCTGNGCTCAGCTGCCTTCNANGGAGGANC
NGATCGGCNAGTGCTCTGACTGCGTGGCCGACAANNGCTGNCGNAGAAAGAAATNAAANC
CCTGAAACATGACAGNGAGTGNTGNAAGTGTGGAAATGCCTTCTTAAAGTTNATNAANG
TNAANTCAAANNACATTTTTTTTTCAAAAAANATAAATTTAGAACTAANTGNACCTT

Sequence 469

CGGAGGAGAATGGTATCACTCAGGCTCTCAGAGTGACACTGAAGCAAGACACTCATGGGG
TAGGACATGACCCTGCCAAGGAGTTCACAAACCACTGGTGGAATGAGCTCTTCAACAAGA
CTCGGCCCAACTTGGTAGTGGAAGTGGGCAGGATGGAGTACCTTCAGGATTGGCCTGTT
ATCTTCTTAGAACTAAGTTCATCTTAAAAATTTAAGAAGGTGGACATTTCAACACCAT
C

Table 1

AAGTGCATTTAGGTGACATGTTTAAGTTAACTTGACTTCCTTGAATGACCTAGTTAGTA
A
ACTAGTCACTAGTAATTCGGTCACCAAGCAAATCAAGCCTGCAAGAAAGGAAGCCAATAT
TCAAAATGCCATGTTACCATCTAAACC
Sequence 470
TTGGAGCTCCCCGCGGTGGCGGCCGAGGTAAGTATTTATTGTCTACCTCTCTGGACTTG
CTCCCAGCATCCGGACCAAAACCATCAGTGCCACAGCCACGACAGAAGCCGAACCGGAAG
TTGACAACCTTCTGGTTTCAGATGCCACCCAGACGGTTTCCAGTCTGTCTGGACAGCT
GATGAAGGGGTCTTCGACAATTTTGTCTCAAAATCAGAGATACCAAAAAGCAGTCTGAG
CCACTGGAATAACCTACTTGCCCCGAACGTACCTGCCCCG
Sequence 471
TTGGAGCTCCCCGCGGTGGCGGCCGAGGTAATTTTTTTTTTTTTTTTTTGGGAAGA
CA
CAAAGATTCAGACCACAGCCTACAGGGAGAGAGGATTTCTGAGGATGGTGGTGCAGTGTG
AGTCCACGCAGGCCTCCTGGGCATAGGATGGAGCAATTCATCTCACCTCAGGCCTAGCA
CAAAGGGCTTCAGTAAACCACTGGAGTTTCTTCATTAGGATCCATCCCAGGATATCCA
GAGGACAAGAGGCTGGCCAACTGCAGGATTAGCCTATGCTCCCGTGTGGATATAGGCTA
CACGCAAGAGAAAGCTTGGGTGGGATCTCCTGATCCCGGTACCTGCCCC
G
Sequence 472
GCCGGGCAGGTAATGAGGTGTAGTGNTACTATTACAGTTAATNCNTCCTTTGTAGTGCG
CTGNTAAATGCAGTGAGGATTGGAGCACTGTCCACTGAGTCTCTGTGC
Sequence 473
CAAAATAATTATAATGTATTAACCTACTGCCTGTCTTTATAGGGGAAAAAATAAC
C
TNTTTTATTTTAAAGTTATAAGGGGGNTTACCTTNTAGNGTGCTTGGATGACAGGGAA
AT
TAGCCTACCCCATTTTGGTCTGGAACAGAAGACTTTCAAATTTAATATGGNCCAAGTGTG
TTNACTANTTAAGGCAAGATCATGCTTNTGTGCTTACAGTTNACCCANTGNTTGAATACCGTG
NACACCGATCGTGGCTCGNCTACAGCCTCCATGTNCCCAGGCTTCGAGCAGGT
Sequence 474
GGCGGCCGCCCGGGCAGGTACGCGGGGGAGCTGAGCCGGTGGGTGAAGCGGCGGCCACGG
CATCCTGTGCTGTGGGGGCTACGAGGAAAGATCTAATTATCATGGACCTGCGACAGTTTC
TTATGTGCCTGTCCCTGTGCACAGCCTTTGCCTTGAGCAAACCCACAGAAAAGAAGGACC
GTGTAATCTCTAAATTCACATTTATGTTTTGTAGGCTTGGAGCTTCTTGATTATGGGT
T
TTTCGTTACAAAATTCAACAACAGAATCAATACTTTGCATAAACATTATGGATGCTTTTT
CTGTTTGTACCTCGGCCGCTCTAAACTAAGTGGATCCCCNNGGCTTGCAGGAATTTTGA
TATTAAGCNTTATCGATACCGGCGAACTCGAAGGGGGGGGNNCCGGGACCCANCTTTT
GGT
Sequence 475
TTGANGCCCTCCCCGCGGTGGCGACAGGGTTACATTGGTAAGGGTGACAGTTAGAAGGGG
AAGTCCTTTTAGTGAAATAGATGAGAGGTTTTAGATCTGCACAAACCTTTTTCATGGAAG
TCCAACCTTGCTCCTGGGTAGTTTAAAGGACGTAGTCCCATGTACCT
Sequence 476
NNGCTACACGCTAGGAACCTTGCACTTACAGTGACAGAGCTCCCATTCACGAGGCCACC
ACTCATCTCGATTTCTGGATCTCTAGGGAATGAGTAGAGCTCCACCTGGATTCCCTTT
TC
CAGTTTCTTATGTCCACAAGTCACTGTGCACAGATAAGAGTGTTCGTTCTCAAACTCAC
AGGGCTCAGGGTCATGCGTGGAATTGGGTCCCTTCACTCCTCACCTTTCCCGCTTCA
GAGGGCTGTCTATCTGGGTCTCCAGGGAGAAAGATGGGAATTCACAGCCCATGGACAC

Table 1

TACCATGTCAACAATGACTGAAGTCTTCCAATCTGAGCCAGGCAAATTCNNGNGGGTCC
AGGGGGGAGAATCTCAAACAGNTAAATGGGTTTTCTCTTGAACAAATTAAATTTCCCA
CCTCTTTTTNTTGNTTTTTCCCC

Sequence 477

NGGNGGCGGCCGCCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGCAAAA

A

TATTTATTAATAATGATTTTTTAAGTTTGAACCTTATTGGAAGGAGTCCCTCTAATTCAC
ACTTTCATCCTAGATAAATGGGTAAGAACCACATATGGAATATAAAGCATTGATTTTTT

A

AAAACCACATAGTAGCACAGTTGAAAGAAATGCAATTCTCCAGGGTCTTAGAGAATTCAA
AGGNGGCATCTTAGGGNNGGTCTAAGGAAACCCAAATTACCAGGTCTCATGGGTTTTCC
TTTTGGGTTCAAGGATTAGAAAGGAGTCAGNGGTTACCCACCTACCCTGGTTTTTAGGA
GGGGTAGGAATATTGAAACCTTTCTACTTAGTCCANCAGGTTTTACCTGGTTCAAGGGT
GGNCCCCCAACCAAGGTTCTTTTTTATCTTTCAAGCCCCATTCTTTGGCCCTCTT

AA

GNNGGGGGTGG

Sequence 478

TCCCCGCGGTGGCGGCCGAGGTACCTGCATCAGGGATAAGAACCATTCCCTCCCTTGT
TCCGGTGTGCTCTCGCCATTGCACCATCCATGAGACGCACTCTTGATAGAAGTAAATTT
GCCTTGCTGAGAAAAAAAAAAAAAAAAAAAAAGTACCTGCCCC

Sequence 479

CTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGGTGTGGCCTGCATCTCAGCTGGCCGCCA
TCAGNGTAAATAGAGCTTAAAGTCATGGTTTGGCTGCATAAAATTTTCTAACTTGGGT

T

NAATATTTGTAGNTGAAGTATCTGCTTTTCATTTTTTTACGTTATAAATAAAAAATACTAT
GCTGGNCGGGCGCGGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCCAATGTGGGT
GGATCATGAGGTNAGGAGTTCAAGACCAGCCTAGCCAAGATGGTGAAACCCCGTCTCTAG
TAAAGATAAACAAAAAATTAGCTGGGC

Sequence 480

GCGGTGGCGGCCGCCCCGNCAGGTACAGATGCAAACGGAGGTGTAGACTGNGCAGCTGCC
AAAGTGGTGACAAGCAATCCAGAGGACCATGAAAGGATCTTAATGCAAGTCATGAACCTG
AATGTGCCGATGAGGCCTGGCATTCTTGCCAGAGACAGAGTAAGGAAGTGTGGCCACA
CCCTTAGAAAAACAGAGGGACATGGAGGCAGAAAAAAAAAAAAAAAAAAAAACGTAC

CTN

Sequence 481

ATGTTTTGTGCCAAGGTGAGGGCTGCAAGTGTTTTCTAAGGGTTGAAACATCANAATAA
AGGTATGGTGGAAGTCCTCCTTCTGCTAGGCTGGCTGGCAAGGCCCTATGTCTTGACCT
AGGTGGTAGTTACAAGGGTATTTATTTTGCCTTATAATAATCACTAACTATGTTATT
TGAGTNAGATTTTATGTNGTGNGNCNTTTAATTTACACAAAATTAAANCAAAAAGNA

A

CNAAANGTTGCNCTCNGNCTCGGNTTNTAAGTAAACCTAAGGTGGGA

Sequence 482

CTGAGAGATCCCCTCATAATTTCCCCAAAGCGTAACCATGTGTGAATAAATTTTGAGCTA
GTAGGGTTGCAGCCACGAGTAAGTCTTCCCTTGTTATTGTGTAGCCAGAATGCCGCAAAA
CTTCCATGCCTAAGCGAACTGTTGAGAGTACGTTTCGATTCTGACTGTGTTAGCCTGGA
AGTGCTTGTCCCAACCTTGTTCTGAGCATGAACGCCCGCAAGCCAACATGTTAGTTGAA
GCATCAGGGCGATTAGCAGCATGATATCAAACGCTCTGAGCTGCTCGTTCCGGCTATGGC
GTAGGCCTAGTCCGTAGGCAGGGACTTTTCAAGTCTCGGAAGGTTTCTTCAATCTGCATT
CGCTTCGAA

Sequence 483

Table 1

GCGGTGGCGGCCGAGGTACTCTTCAAAATTGTCAAGGTCATGAAAGACAGCAAAAAGTGA
AGAATTCCTTACAACTAGAGGAGACAAAGATTGGAGAAGAAACAATGACTGGCNGGGCAC
GGTGGCTCATGCCTGTAATCCACTTTGGGAGCACTTTGGGAGGCCGAGAGGACAGATCA
TCTTAGGTTGGGAGTTGGAGACGAGCCTGACCAACGTGGAGAAAACCCCATCCCTACTAAA
AATACAGAATTAGCTGGGTGTGGTGGTGCATGCCTATAATCCCAGCTACTTGAAGGCCCT
CGGCAGGAGAATCACTTGAACCCGGGAGGCANAAGNNTGTGGTGAGCCAAAATTGCGCC
ATTGCACTCCAGCCTGGGCAACAAGAAGCCGAAATTTCTGTCTCAANAATAANAACAA
AAAAATAAGTACCTGCCCGGACCGGCCCTTCTANAAGTGTGGGATCCCCCGGGCC
TGCAGGGAATTTGATATTCAAGCTTATCGGATTCGTNCGACCTTCGANGGGGGGGGCC
CGGNTCCCCAAGCTTTTTGGTTC

Sequence 484

GATGTGAACAAATGTGTCATTGCTCTCCAAGAGAAAGGATGTGGATGGCCTGGACCGCAC
AGCTGGNGCAATTCGAGGCCGGGCAGCCCGGGTCATTACGTAGTCACCTCAGAGATGGA
CATCGAGCGGCCCGCCGGGCAGGTCACAAGCTTTATTGGGCAACAGCAACGAGCCACGCT
GGCAACAATGAAAGTAGAGTCGCTCAGAAACACGAAAGATCATATGTGTGTCATCACAG
CATCGAGAATTTAAATCATCTGGAAGTTCCTGCTAAATTAAGCATACTGTGCCNNAGCT
CCCCTCTAATCAAAAAACGCTTGTCTGGNGAAAAATTTGCATGNGGGNNTACAGAGAGA
GAGATCAACCAGGTGAGGAAATCACAAGACTCTTACATGAGTTTACAGTTAACCCCCCTG
CACCAAAAAATAAATTAGCCATAATTTGGTT

Sequence 485

TCCCGNGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGGAGGATACT
T
TCATTTTTATTTATATCGTGAGGTATTGTTTGGATTGTTACAATGAACTTGCATTTCTT
TTGTAATGAAGAAAATAATACAGAGGAAATAACAACAATAAACCTTTGGCCTGGGATTA
TCATCCGGGCTGGGAAATTCATGTTGGGATGGCAAGGTTTTATTGATAACAAGGTTATT
TTTTGGGGTTTATTATTGCAAAAAAAAATTGTTCAATTGGGAATTGCCCTCCTATTTGG
G
CTTGGGCACCTTGCCCTAAGGGCCACTTTTCACCAAGGGTATTTTCATCCCTTAAATCCC
TCACCAAAACCAGGCCCTATTGGAAGGGGTAAATCAATTGGGGTCCCAAGGTTTTACCAA
GGAAAGCCCTTTTGGGGGNGGGGGGAAGAATTATTTGGGCTTTGGGATTATTACTTTCT
AATTTTGGCCACCACCATTTTTTTTGGTTGGGGCAAAGGACCGGTTTCCGTAATCCGG
GCTTGGGTGGATTTACCTTGGGTCAAAGGAAGCTTCTCATTGGGGCCAAGGGAGGTTT
CCCTAATTTGGTTGGCTTGGNAAAGGAATTTCAAATAATTCAAAAAATACTTAAGAAA
TTTTTNNCCCCCA

Sequence 486

TGGCGGCCCGCCCGGGCAGGTACGCGGGAGTGTGGATNGAACAGAAAATTGGAAATCATAG
TCAAAGGGCTTCCCTTGGTTCGCCACTCATTTATTTGTAACCTGACTGGGGTTTTTCT
G
CTTAAAAATTTCAATTCTCGTGGTAACAACCGCAGAGTAGAAGGAGAGGGTGACTTTACC
GAAGTGACAGCCATTGGGGAGGCAGATGCNGGTGTGGAGGTGTGGGCTGAAGGTAGNNGA
CTGTTTGATTTTAAAAAGTGTGACTGTCAAGNTTGATCTGTTGCTTTTNTCAATGATT
C
AANGNGATACAAAATGGGGCTTCTNTCANTCATTTAAAAAGGAAAAACGCCGACCATCCT
TTCTAAGGATCTCTGTGGGAAAAATGGACTGTCAATTAATTAAGGCGGGGTTTT

Sequence 487

CCCAGGGTTTCAGTCTCAAGGGGCCATCCTGTCCCACCATGCAGTGCCCCTAGCTTAGA
GNCTCCCTCAATTCCCCCTGGCCACCACCCCCCACTCTGTGCCTGACCTTGAGGAGTCTT
TGTGTGCTTGTGTGAANTAGCTCACTTGGTGATATGCCTATATTGGCTAAATTGA
AA
CCTGGAATTGTGGGGGCAATCTATTAATAAGCTGCCTTAAAGTTCAGTAACCTACCCCTTA

Table 1

GGGAGGGCCTGGGGGGAAAAGGGTTAGAATTTTGTATTCAGGGGTTTTTTGGTGTACCC
TGCCCGGGGCCGCGCTCTAAGAACTAGTGGGATCNCNCNCGGGCTGCAGGGAATTCG
ATNTCNAAGGCTTAATCGATACCCGTTCCGACCTCGAAGGGGGGGGGCCCGGTACCCCAA
NCTTTTGGTTCCTTTAAGTGGAGGGGTTA

Sequence 488

CNCGNGGTGGCGGCCGAGGNACTTTGTTTTTTTTNTTTTTTTGAGGGTGGCTTTAT
TT
TCAATATTTGTCTTATTAATATTTTCTTATTTTATAATGCAATTACAACNGNTTTAGGA
GACAAAAAATATAAAACAAAAGAATGTTAAATAGGTTTTTTTAAAAATAAGCTTGGTT
GGCTTTGCAANGGAAAGTCCATAAANTCTTATTCCCCCAATATTAAGTTTATT
A
CTTTNGCCACNTAGAGACCCAAAAAATAGCTTATTGGGGAAAAAATTANGTTATTTAAA
AATANGCCTTAAAAACCACCAAGGAAAAACCTTACCAGGGCNTATTAATAATTAACCA
ATTAATAATTAACCAAGGGTTTAAACTTTTTAAATGGNGGGATNGGCCTTTAAAAACC
AAA

Sequence 489

NGCCGACCGAAACCTGGTGAAGCCCTTTGGGCGATTGGTGATCACCCCTAGATCCGTGAA
AGCTGGCTGCCCCCATCCGGGCAAGCAGGGCCAAGGTGGCATCTTNACATTCTCTGGAA
CCCACCCAGTAACAGCAGCAGGTATTTCTTCTGGGTAATGAAGAGCCTTCGAAAAAAC
TTTCTTGCCCTCAAAGTATTTACCATAAATCTCTTTAAAGTGGACATGGTTCAAGAA
T
CAAGNGGGCTCAAGAAGTTTNGAAAGTAAAGNAGGTCATTTTCTTAAGTTTCAAGCTT
TTCAAGTTTNGTATAACTTTTCAAGCCCTCTGGCCCTTTTTCAAAAAGAATTTTCTT
G
GGAGGAGGTCCAAATTTTTTCTTTTNGTTTNCCTAACNTTCTTTTTT

Sequence 490

NCCGCGGTGGCGGCCGAGGTACCTGATTTTATTTTCTNAGTTTTCATCCGAATCCACTGGGG
AATGGGACGATTTTGCTTTTGTCTTGGCCAGGAATCGCTTAATCCTGAAAGTCTTG
TG
AGAAGACATGGCGAGCAGCGGAGTCAAGAACACACCACGATGGCGGAGAAAGGAAGAGGA
GGCCCCGCTCCTGCCCCG

Sequence 491

ACTCCCGCGGTGGCGGCCGCGGCCGAGGTACAAAAAATAAAAAGGAGGCTGGTGGGAG
AACTGCTTGAGCCCCAGAGTTTGAGGTTACAGTGAGCTATGATCACATCACTGCATCCCA
GGCCTGGGCGATGGAGCGAACTGTCTCTTAAAAAATGGCAGGGAGTTGGGGAGCTGGGC
AGGTGCAGTGGCTCATGTCTGTAATNCCAATACCTCTGGGAGGCCAGATGGGAGGGATC
ACTTTGAGCCCCAGGAGTTTGAGACCNCCCCTGGGTTACACAGGGAGACCCCCGCTNAAA
ATTTTAAAAAANTAGTCATTNCTTAGTGGGTGCNTTCCCTGTNGTNCCCCACTTCTTT
G
GANGGTTTNGGNCCAAGGATTTCTTTNGCCCCTGGANGGACAAAGGCTTTCANTGAGC
CTTTTNNATTTTACCCCTTGGCTTTAAACCTTGGGCCATATNAATTAGAAANCCCTTN
T
CTTTTAAAAAATAAAAAAANGGGGGNGGGGCNCNCCCCTNTTTTTTTTTTGGCCCA
ANCNCCCNNATTTTTTTTTT

N

Sequence 492

TCCCGCGGTGGCGGCCGAGGTACATGAGAGATAATGTTATGACAAGAATAGTTTCTGCAA
CATTAAGTATGGGTCAAAAAAAGAAGAAATGGGCCAGGCGCGGTGGCTCATCCCTTTGGG
AGGCTGAGGCAGGTGTATCACAAGGTCAAGGAGTTTCAGACCAAGCCTGACCAATATGGTGA
AAACCCATCTCTACTAAAAAACACAAAACCTTAGCCAGGCATGGTGGTGACGCCTGTA
ATCCAGATACTCAGGAGGCTGAGGCAGGAGAATCGCTTGAACCCGGGAGGTGGAGGTTG

Table 1

CAGTGAGCCCCGAGATCACGCCACTGCATTCCAGCCTGGGCAACAGAGCAAGACTCCATCT
CCCCAAAAACAAAGAAATGACTTTAGACAAATGGCTTGAATGAAATTACAAAGAGGAGGT
GCATTAATAAAATCCCAGCAGTAAANCTTTTGAAGAATTAATGACAGGCTAAAAATAA
ATAATAAATGTTCTTTT

Sequence 493

CCCGCGGTGGCGGCCCGCCGGGCAGGTACGCGGGGGTGGCGGCGTTGGGTTGAGCGGGCT
TTTTGGAAGTTTGTGGCGGAGTTCTGTGATATGAGCAACAATGGACCAGAAGATTTTATC
TCTAGCAGCAGAAAAACAGCAGACAACTGCAAGAATTTCTTGGGCAGGGCCTGGGGAA
TGCTTTTTTATCTCATATTAGTGCCTGTGATGGCATCTTTCATCTAACACGTGCTTTTG
A

AGATGATGATATCACGCACGTTGAAGGAAGTGTAGATCCTATTCGAGATATAGAAATAAT
ACATGAAGAGCTTCAGCTTAAAGATGAGGAAATGATTGGGCCATTATAGATAANCTAGA
AAAGGTGNCCTGTGAGAGGAGGAGATAAAAACTAA

Sequence 494

CGCGGTGGCGGCCGAGGTACTCATGGTTGCTGTAAATTAAGGCAGCCGTTCTGCAGGGTT
TTGCTTAGCCAGGCTCCTCTGAGATCTGGCTATTCTGTCTTGTGGATTTTCAGTCCCC
GC

GTACCTGCCCCGGCGGTTCCG

Sequence 495

AGATCTCAAGATCTGGACTTCTGTTGAAAAATTTCCCGTGAGGNTNACTTATGTCTG
TA

AAGATGGGAAAAAATACAAGACATTGTTCTACTAAAAGGATTAGAGGTCATCAATGAT
TATCATTTTAGAATGGTTAAGTCCTTACTGAGCAACGATTTAAACTTAATTTAAAAATG
AGAGAAGAGTATGACAAAATTCAGATTGCTGNCTTGATGGAAGAAAAGTCCGAGGTGAT
NCTGNTTTGGGCCAANCTAATAAAAAATTTTCAAGAATNNCCCCCNCTNGNAANCNCC
CNGNCTTGAAANCNTTTTAAAAAAAAGAAAANGGTTTAAANNGTAAAAGGGGNCCCC
CNCCCTTTTTTAAAAAAGNNGAAAAAAGGGGNGGGGGG
T

Sequence 496

CGCGGTGGCGGGCCGGCCGGGCAGGTACCGTGAAAAGGGCACTTCTCCTTGAGAAGGCCCT
GACAGTGTCTGTTAATGTCCTGCTGGCGCATGGTGAAAATTTAGGGCAACAGTAAAGCAC
CCTCTTTAATTTCCCTTCTCCAAGCCCAAGCTTTTGCAGGTAAGTGGAGCGCTTCCTC
AT

TTGCATAATAGGCAGTTTCAATAACTGGGGAC

Sequence 497

CCGCGGGTGGGGCCGGCCGAGGGTACNNNGGAGGCCTCATAANGGCNGGGNATCNTCGAG
GNTGGTATNGNACTGNTNANAAAGCCNNCATGGTGGTANNCACCAAAANCTCACAAGAA
CAATTGNNGCNGCGAAACAGGCAACAGANTCTGNCATTATATAATAAGGGCGTGGTACGG
TTGGGGAACCCCGNANGANTCNNTATGGTCCTTGNTTNGCAAGCNNTGCATTTTAAATCA
GACGACCGTNAATTTGTANCCCCAANCCTTNTANAATAAATCGGCAATCGCGCAATAT
CTCATCATTNANCACTGTGGACGACTTGACAATCTTAGTGGCTTNATGGACTTATTGCA
AACTCGAGAAAGAACAAACCTAGGGGTGCGCCCTGACCTTCGGAATAATTCGTAAGCTA
TATGTGAGAACTAGCAACAGGGCGTTTCATTTATGNGNAANGGGACGCGAANTGGANGA
TAATTATGTAANAAGNNGGGCCCTACGANTTTGGCCCTAGACGCCAGGGAAACCGCGG
GGCNCCATGCATNACNCACTTANGGNAGGGGTANTTCTCCNCACACNCNTNTTTTCG
ATTTGGANAATANGCTGGGAATNAATCCTACATGACCTGTCAATTTTCGGAGTTATCGCNG
GCCGGTACNGNCCCCCCCCGGGGGGGGGGGGGNNCCCCCGGNTTANCCCCCAAGCT
TTTTTTGGTTTCCCCCTTTTNNAGGTTGGAAGGGGGGGGTTTNAATTTTGNCGGCC
GC
CTTTTGGGGCCCGGTAAAAAT

Table 1

Sequence 498

TGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACACGGGCCTTCCACTTCAGCTGACT
GAATTTAGGCAGTTCTGGCCACTTCAGTTTCCGCACCCAGGCCTCCTGACCCATGGTATC
TACGATGAGATCC

Sequence 499

GTGGCGGCCGAGGTACCTCAATTGATGATTTCTGGTATGACCTAGCAAATACACTGCTTT
CACTGAAATTTCACTCTTGCAATCTGCTTTGGGTTCCCAATCTAAGACAGAAACATACT
CATTTCCCATCACTGGACTTCCAGGTGTTTTCAATTTTCACTGTTACAAACAAGGT
G
GCAACATTTATCTACAAACCTCTTGATATTACACCGTAGGNAAGCTTTCTGGGTATT
T
CCACCTAGTGAAACCTTGCTCAAGTTGAAGGGGGTANTGTTGGGATNCTTTCATCTT
TT
TAATTAATAATTATTTACCAACCATGTTGAAAAAGCCCCGACCAATGGTCAAGGGACTGNG
CAAAGGAGGTGCCACCAATGTTGAATGGGGGNTGGTGGGAAATGGGCAANGCTTCACTG
NTANACAAGGGTGGCTTGGGGGGACCTCAAGTTTTGGGGGTTCTTTGGGAGNAAAGCCAC
TTTAGNTTATTAGCCAAGGAANTGTTCTCATAAAAATTGGGTNTTCTTGATTAGG
A
AGACCAANGAAGTTAGGTTNGGGGGGAAAT

Sequence 500

CGAGCCGGGAGCCATTNANAGTTGTTAAAAGCCTNGGGGGTGCCCTAAATGAGTGAGCCT
AACCTCACATTTAATTTGCCGTTTGCGCCTCAACTTGCGCCCCGCTTTTCCAGNTCGGGGA
AAAACCTTGCCNTTGCNCAGCTTGCAATAATGGAATCGGNCCCAACNGCCCGCGGGGG
GAGGAGNGCTGGATTTTGCCGTTATTGGGGCGGCTTNTTCCCGGCTNTCCTTCCGCTT
CAACTTGNACTT

Sequence 501

ACATACTAGCNNGGGTAGCATAAAAGNTGTTAAAGCCTGGGGGTGCCTAATGAGTGAGAGC
TTAAACTTCACAATTAATTTGCCGNTTGCTGCTCCACCTGCACCTGCTTTNCCAAGAT
CT
GGGGANAACACNTGNCGTGCCAGGCCTGNNATTAATGCAATTCNANNNCAACCGCCGC
NGGTGGGAGNAGGGACGNTATTGCCGTTAATATGGGGGCCGCTACTTTTTCCCGC

Sequence 502

NACAAACATTACGAGCCGGGTAGTCATAANAGCTGTAAAGCCTGGGGGTGCCNTAATGAG

Sequence 503

GCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTATGAATTATTTATTTCTT
TCTCAGAAAAGGATGCGCCTCCACTTAGCAAGGCTGGGCAGGATGTGGNTTNTGNATCTG
CCCACAGACGGGGTGGTTCTAGACGGCCGCTCTNNAAC

Sequence 504

ACATACTANCCCGGNAGCATTAAAGTGTAAGCTCTGGGNNTGCCTAATGAGGTGAGCT
AACTCACATTAATTTGCGTTGCTGCTCACTGCCCCGCTTTCCAGTCGGGAAAACNCTTGG
TCNGTGCCCANGCATGCATNTAAATGNANATCGGCCAA

Sequence 505

CACAACATACGAGCCCGGGAGCATAAAGTGTATAAGCNCTGGGGTGCCCTAAN

Sequence 506

CGGTGGCGGCCCGCCGGGCAGGTACTCGTCTTGGTGAGAGCGTGAGCTGCTGAGATTG
GAGTCTGCGCTAGGCCCGCTTGAGTTCTGAGCCGATGGAAGAGTTCACTCATGTTTGA
CCCGCGGTTGATGCGTGCTTTTCGAAGAACAAGACTTTCGGCTATGGAAGTCCCCATGT
TGATGGATCCTGAGGCTTGAAAAAACTGAAAGAGAATAAAATATCTTTAGAGTTCGGA
ATTATTGAGAAAAATCAAANACTCCCNAGTTTTGATGACCTGNGAAGGAATATTTGAG
GGACNCCANGCCCTTTGGGGNAAGGANTCCTTGACTCTATCTTTCAAAGGAATGNAA

Table 1

ATTCCTAGTAACAGGCCCTNTAAAGACTNAANACCAAACCTTTGGACTTCTTGCTTGGATT
TTCNTTTTTATTCCCTTTTTTTTTTATTNTTTTTTAAAAATAAANAATAATTTAATT
TTAAACTTGGNACCTTTTCCTTAAATAATATTACCTTTCTNATTCAAAGGTGGGAAAA

N

GGGAAAATTTCC

Sequence 507

GGCGGCGCCGGGCAGGTACGCGGAAATCCCCTAACTTCCTTGCTATCTTCCCATNCCATA
TTAGGTTAGATNGAGAAGTGTGTATGTGTGTGTGTGTGTGTGCTCNGCACAGTNGA
TGAAGTGTAAACATAAATTGAAGATATTGAAAANTACATNAANTTATGGACCAACATGA
CAATTTTCATTAGGACTTCCTATTANAGAGTATCAGTTTNACANNTTGGGTATTAGNT

A

CTAGTATNAAACATTTTCAGATACTTGCACTGATTTTCTGGTGGANTAAAGCAANGGCTT
NTACAAGTTNTAAGCATGTCTTNTANGNCTATGCTTTGGAATACCAGCTAATAACCAAT

C

AACAAGNCCAGNAGCCTTAANGTGGTATTTTTTGGTTGACCCTAAAAACATGGAACCT
NAANGGGTTTCTNCAAAAANTTGCCTTAACCAAATGGAAANTAGGTGGGGGGAAG

Sequence 508

TATCCGCTTCACAATTCCACACAACNATACGAAGCNCNGTTAGCATTAAAGTGTAAANAGC
CCTGGGGTTGCCCTAATGAGTTGAGGCTAACCTCACATTAATTTGCNTTGGCGCTTAC
NTGGCCCCGCATTTTCAGTTCCGGGGGAAAACNTGATCGTTGGCNCAGGCNTGCCATTT
ANATNGGAATTCGNGCCCAACCNCNCCGGTTGTAGGAGGGNCGGGTTTTGCGGNAATTTG
GGNGCGCTTCTTTCCCGCTT

Sequence 509

CCNANGTACACTCCACCACCACCNCATGGTCTCTTTCATATNNCTCAANNNTCAACNTG
NTCCTGNGGCTTCATAATTNTCCTNTTNCATCTTTTTCACTTCNNANGCAAACACCGC

CT

CNNCTNANGCTNTNNANTCAATNCANTTNNCCTTAATNAAATCACAAANTNTCCTCC

AT

TACNCANNAANNTNTNNNCATTCAANNCCACAATCCNGGTNNTGGTCTNNCTNNNCCACA
TCANCAAAAATCACATCCACCATTNCNATCCCNCTACCTTCCNNNCCNCCCCCTCTAAA
ACTANTNNATCCCCNNNCTNCAANAATTCNATATCAANCTTATCNATACCCTCNACC

TC

NAANNNNNNCCCNATACCAACTTTTNTTCCCTT

Sequence 510

CGGCCGCCCCGGGCAGGTACTCTCTGAGCCAAGGACATTCTCATTTAAACAGTTTAAANAG
GCTGGGNGCNGGATCGGGAAAAAAGAAATATACCCTGGCAGCCGCCTGCCCGGCCGGA
AAGCGGANAGGGACNCTAANATCAGCAAATTCNCCAGTTTGGATCCTTGTCCTTTTCCGC
CCTTTTCCCCCATTAATCCANAACCCGTCACATGATAATTAANAAAANGGTTTCAGTTC
CTCCTCCTCAAACCACTTCNGTAAGAGGATCCCCNCNTACCTCNGCCCCCTCTAAACT
AGTGGATCCCCCGGCCTGCANGAATTCNATATCAACCTTATCCATACCCNTCACCCCTCA
AGGGGGGGCCCCGGTACCAACTTTTTTGTTT

Sequence 511

GGGGGAGGGCAGNAAANCAAACCACAGCNCACNGCANGGGCACACANACAATCCCCAGC
AAAAAAAAAAAAATNNNTNTNCCAAACANAAAGAGCCTGGCCAGGGGGCCCANACGGGCC
NNAAAGCCCNNGGAACCAATTTTTNTGGGGGCGGGGGCCCCCAAAGGGCGGGAAAAACA
GCCACGACCCACGGCNCAGCNCGAACAGAGAGCNGGGGGAGACGCNGCCAAAAGCAAA
ACGGCGGCCAAANCNNAGGGAGCAANNNGGGCGAAAAGNNNAACGGAACCANNANGAAA
NAAAANCAAAAANAAACCGGACCANA

Sequence 512

AGCANACCGCGGNGGCGTTTGCGGGAGAAACNGNGGACCCCCCGGGCTGCAGGAANNCG

Table 1

ANANNCNATTTAGGGNGACNNAACCCC

Sequence 513

NAGNCACCGACGAGACCAGATTANACNTNGGGGGCNGNAAAACCCAGCCCCCCCCGGNC
ACAGCCCNAAAGGCCAACCCCTTTTGGAGGNGCNGGGGGANGCAAACNGAAAAANAGCNG
GAAAAAGNAGGAGNNGAAGCCAAACAGCCAAANNCNGCCANNAGGAAGNGNGNAAGGGTT
TTGCNANTTTTTNNANGGGGGGNANCACACCCCNGAANAAAGNCCGGGCNGNCNGCC
CNGAACGAGGGGGGGGGGGGGGGGGGCGNCAAGAAANGGGNGANCAAAGCNNNANCGANAC
CGGNGACCNNGNAGGGGG

Sequence 514

ATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTCCGAAATCTTACCTTCAGT
CTTCTCTGCCACCCAGTCATTTATATGCTTCTGCACTCTTCAGTGTCTTCAGCAAAG
GA
CAACTCCTCCAGCTCTGCCTGATAGAACTTCTGACAGTATTCTTTAAAGTCTGGAAGGAA
ATCACACGTCTTTTCTCAAAGAGTCTGTTGGCAGTCTAAGCAAGTACGCGGGGTAAAGC
AGGAAGTGAAACCCACAGAGCTTCAAAAAAGAGCGGGACAGGGACAAGCGTATCTAAGAG
GCTGAACATGAATCCACAGATCAGAAATCCGATGGAGCGGATGTATCGAGACACATTCTA
CGACAACCTTTGAAAACGAACCCATCCTCTATGGTCGGAGCTACACTTGGCTGTGCTATGA
AGTGAAATAAAGAGGGGCCGCTCAAATCTCCTTTGGGACACAGGGGGTCTTTTCGAGGC
CAGGTGTATTTTCGAGCCTCAGTACCTCGGGCCGTTCTAGAACTAGGGGGATCCCCC

Sequence 515

TTCGCCCCACCGAATGATCACCAAGACACACAAAGTAGACCTTGGGCTCCCAGAGAAGAA
AAAGAAGAAGAAAGTGGTCAAAGAACCAGAGACTCGATACTCAGTTTTAAACAATGATGA
TTACTTTGCTGATGTTTCTCCTTTAAGAGCTACATCCCCCTCTAAGAGTGTGGCCCAT
GG
GCAGGCACCTGAGATGCCTCTAGTGAAGAAAAAAAAAAAAAAAAAAGTACCTGCCCG
GGCGGCCGCTCGACGTGGTTCGCGCCGAGGTACAACCTGCAGTAAGAGGGACGGTTAATTC
ACAGCTTCCAGCTCTTGGCGCCAGAGTCCGATGCACTCCTGCAGATAACGGTCATTTCCA
TTTCGGGAGAACCTCTTTCGAAAAACAACCCGGATGAGACTATCTGGCAAATTGCAGCC
CTTGGCGGGCTT

Sequence 516

ATTGGAGCTCCCCGCGGTGGCGTTTTGCTCTTGTAGCCAGGCTGGAGTGCAATGGCAGG
ATCTCAGATCACTGCAACCTCTGCCTCCTGGGTCAAGCGATTTTCTGCTTCATCTT
CC
CAGGTAGCTGGGATTACAGGCATGTGCCACAACGCCTGGCTAATTTTGTATTTTAGTAG
AGACTGGTTTCTCCATGTTGGTCAGGCTGGTCTCAAACCTCCCGACCTCAGGTGATCCGCC
CGCCTCGGCCCTCTAAAGTGCTGGGATTACAGGCGTGAGCCACTGCGCCAGCTATACTG
TATATTTTAAGGAAGTTCAGCATGTTGCATCTTCTGCATTTATCCCTATATCATTAATA
GAACATAAAGTTATCATGGTGTGGGTAAATTAGCGAAATTCAACCCCTTCTTAAGGTTT
AAGGGGAAAAGGTATTTTTAAAAACAACCTAATNAAAACCTTACCCTTCTTATACAAGA
GTGGATTTCCCCCTTAATTAGGGATGCATGGTTGATTAAACCTCNAGATACAGCTTTT
TT
GCAGTAATGGGGGGGNTGGGT

Sequence 517

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGTGTGATCCAGTCTTGCTT
TTCAACGAGAAGGATTTGGACGTCAGAGTATGTCAGAAAAACGCACAAAGCAATTTTCAG
ATGCCAGTCAATTGGATTTCTGTTAAACACCGAAAAATCAAAAAGCATGGATTTAGTAGCT
GACGAGACTAACTCAATACAGTGGATGACTAGAAAGCAGGTTCTCCAGCAGAGATGTG
GGTCTTCCCTGGGTCTGAAGAAGTCAAGCTCATTGGAGAGTCTGCAGACCGCAGTTGCC
GAGGTGACTTTGAATGGGGATATTCCTTTCCATCGTCCA

Sequence 518

Table 1

AAACCCACCCCCAGGGGGAAGGGNNGAAGGGAGGGGCTTGGAGGGCNGAGGGGGAAGC
CCCCGAAAANGACNNCCCCAACCCAGGGGANAANAGACCCGGNAGGGACAGGCNAAGGA
GAGGGAACAGGGGAACCANCACTTTTNTNTTTTGGGGGGCACNNGGGCNGGGACCCCC
NACAAAAAANANCCCCCGCCAGGANGGGGGGGGGGNNAAAGGGNAAAAAACA
AGACCCAAAGAAAAAAC

Sequence 519

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTTGTCAGCAATTTTGACAGTCAT
TAATGTTTGTACATAATTTTAAATAAAGTGCTGGGTTTCAGAATAAAAAAAAAAAAAA
AAAAANCAAAAAAAGTACCT

Sequence 520

GGAGCTCCCCGCGGTGGCGGCCGCCCGGCAGGTACTATGTTGAATAATGTTTTTTC
CTTTAATTTTCTGCTTCCCTAGTGCATAGAATTGAAGTCTTAGGGAGTTGAGGCT
G

CAGTGAGCTATGGTCATGTTACTGCGCTCCAGCCTGAGTGATGGAGTGAGAACCTGCCTC
AATTAAAAAAGAAAGAAAAACAGTGACAGTGGGCTCATGCCTGTCATCCAN
CAGTTTTTGGGAAGCCAAGGCAAGAGGATTCCCAGGAGTTCAAGACCAGCCTAGGCAACCT
TAGCAAGACCTTGGTATCTTCCAAAAACCTTTAAAAATTAGGTTGTGTGGTGNTGCC
TGGCTGAGATGAGAGGATTGCTNGAATCCAGGAANGTGGAGGCTGNAGTTGAGCTATGA
TTNNGGCCNCAGCANTTCCAGGCTGGGGNACNCCAGGGGATACCCTGGTCTTTAAAAA
AAAAA

Sequence 521

CCGGGCAGGACGCGGGCGGCTCTTAGCGGTGGATCACTCGGCTCGTGCCTCGATGAAGAA
CGCAGCTAGCTGCGAGAATTAATGTGAATTGCAGGACACATTGATCATCGACACTTCGAA
CGCACTTGCGGGCCCCGGGTTCTCCCGGGGCTACCGCCTGTCTGAGCCGTCGCTTCCAA
AAAAAAAAAAAAAAAAAGGTCCCT

Sequence 522

AGGTACACCTCCCCAAGCTCTCTTCTCCGGCTCTAGCTATATAAGACGTGCCTGCTTCC
CCTTCGCCTTCCACCAAGACTGTAAGTTTCTGAGGCCTCCCCAGCTTCTGTCATGCTTC
CTGTGCAGCCTGCAGAACTGTAAGTCAATTAACCTCTTTCTTTATAAATTACCCAGT
C

TCAGGTAGTTCTTACAGCAATGTGAGAACAGACTAACAACAATCAACTCATGGCTTTAA
CACAAAAAATAGGTAAGTTCAAAATTAACATATTACCACATCCAACCTCTTTATTCTT
GAGAAAAAAGTCCAAATCAAAGGAAAGCACCCGTTTAAACCCTCATATCTTTC
TCAGGGCTCACTGCAGTCTGGCCATATCTCAAGCAGGTC

Sequence 523

TTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGAGTGAGAGGGAACGA
GAGTAAGAGAAAGAAAGTGAAGGGATGTAACTCGAATAAATTCAAAGTGCCTCCG
AGGGATGCAACGGGGCAAAACTGAACTGTTCAAGGCTTCAGATTGTAAGTACGATCTGA
GGAAAAATGAGGTTTGTGTGATTTTGTAAATGCATCACCAACAGCGAATGGCTGCCTT
AGGGACGGACAAAGAGCTGAGTGATTTACTGGATTTCACTGCGATGTTTTCACCTCCTGT
GAGCAGTGGGAAAAATGGACCAACTTCTTGGCAAGTGGACATTTTACTGGCTCAAATGT
AGAAGACAGAAGTAGCTCAGGGTCTGGGGGAATGGAGGACATCCAAGCCCGTCCAGGA
Sequence 524

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGCTCTTGAGGAGTGAGACTG
CAGGAGATGTGGGCCGTGCCAAAGAGATGGATGAGACTGTTGCTGAGTTCATCAAGAGGA
CCATCTTGAAAATCCCATGAATGAACTGACAACAATCCTGAAGGCCTGGGATTTTTGT
CTGAAAATCACTGCAGACTGTAAATTTCCGACAGAGAAAGGAATCTGTAGTTCAGCACT
TGATCCATCTGTGTGAGGAAAAGCGTGCAAGTATCAGTGATGCTGCCCTGTTAGACATCA
TTTGTAAGTGCTGGAGTGACGTAACGCCATCTCAGCTCACCGCGACCTCTGCCTCCTGGA

Table 1

TTCAAGTGATTCTCCAACCTCAGCCTCCCGAGTAGCTGGGACTATAGCAGTGCACCACCC
ATATATGCAATTC

A

Sequence 525

AATTGGGGGGNAACNACNGGCCCCCACGGNCCNCNGGCCAGNGCACCCATTTTTTTNGN
GGGNGAGAANNNGGCCACCCNGACCCGGAGAGGAAGGAGACNGTTTTTNAAGNNGCCNC
GGGCCACACNCNAAAAANCACCCGCAANNNGCACCGACAAACANCGGNGNGCNAACA
NAACNNGAACANCCCGAGGAAACCGCCNATTTTTTTTTGGGGGGNCCAANGAGGGC
CCGNCGCCACAAAAAAAACCAAGGCCCCNGGGGGGGGGGGGAGCCCAANANNGGGG
NGGGGGC

Sequence 526

AACTTAATGTCTTCTTTTTTTTTTCACTGGCTTTTTCATANATCGAGACATGTAAGCA
GCATCATGGAGGTAAGTTTTTGACCTTGAGAAAATGTTTTGTTTCACTGNCCTGAGGAC
TATTTATAGACAGCTCTAACATGATAACCTCCTACTATGTGGAGAACATTGACAGAGTAAC
ATTTTTTNGGGGNAAGAAGATCCTACAGGGTCATGNTCCCTTCTCCTGTGGAGTGGGGG
GGNAGAAGGGGTATGGCCCCAGGGNNGGCCATTAAGTACCCTCTACAGAGAGGGGAAA
GGAAGTCCAGTATGGNATTGCAGGATAAAGGCAG

Sequence 527

AGGTAATCACAGTCACGCTCCTCTGAACCATCCTTGGGCTTCATGGGGTTGGCATTGAGG
ATCCCTACGACAGTCCCTGCTCCGTCTCCAGAGCGCTTTGTGAAGTCTCCAAATAAG
AACAAGGACACACATTGTGTGTCAGGTACGAAGATCATTAGTTTCCATATGCTGAAGGT
TTTCCACTATTCACACTCTGTGGCGTAACCTTCTTGAATATAACCCCAAATGTCACCCA

A

TCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGATCTGAGACAGTCTGATCAG

T

TTT

Sequence 528

AAGGANAATTTTTTGGGGGGNCAAAAAACCCANCCCCCACAACCANGCCNAACTNA
ATCTTNGGNAAAAGAGGGAAANAGGCCCAAAAAGGACAAAAGGNNCANNANAAAAAC
AAANNNCCAAAAANCCGGCCAANAANANNNCAAAANNNNCCCCAATTTTNTTTTTTGG
GGGGGGGAAANGGGAAGNNACCCCAANGNACGCAAAACNACCCAAACAGGGGGGGG

Sequence 529

CCGCGGTGGCGGCCGAGGTACATTGTATACTGCAGTGTCTGCTACATGGCATTGGACAGG
ACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGGAATGGCAAC
CGTGACCAATTTTTGGCTCAAGTTAAATACCAAAAAAC

Sequence 530

CGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGGAACCCATTTGGATTAATTAGA
GGTCTGTCTGAAGGAGTTGAAGCTTTATTCTATGAACCTTCCAGGGTGTCTGTTCAAGGC
CCTGAAGAATTTGCAGAGGGGTTAGTGATTGGAGTGAGAAGCCTCTTTGGACACACAGTA
GGTGGTGCAGCAGGAGTTGTATCTCGAATCACCGGTTCTGTTGGGAAAGGTTTGGCAGCA
ATTACAATGGACAAGGAATATCAGCAAAAAAAAAAAAAAAAAAAAAAGTACCTGCC
GGGCGGCCCGNTCTAGAACTAGTGGATCCCCCG

Sequence 531

ACATTACNAAAAGGAGAGGNGGCCAGNNNAAACACNCNGAANCCANCCNNGCCNGAGN
AACAAANCACNGGAGAACAAAAACGAAAAACAGCAGGNCCNCNNNNAAANCCAANNCAN
ACAAAAANGNCAAAGNAGAACCAAAAGCCANGNGNCCCGCCANAAAGCCNCCCCAAAG
CAACAAAGAGGNCNGCCCAAAACCNCNAAAAAACAAACCCCAAGANGAAAAAACCA
AAACCCCNAAANGNAAANGAAACAANCAACCGGGGGCCCCCAA

Sequence 532

TTTTTATTCAATTTGCGATNGACAGNNNTAGNTTNAATGTTNGTAACACTCTTAGAN

Table 1

N
NNCTGGTTTGTTTCATTTGACATNGGGGCTGCACCAATTTTATTACAAAATCAAAAA
G
TAAAAATCTTACAATATTTGCAGAGTATAACCACTAGTTGCCTAGACAAAAGCTAATT
T
CTACAAAATCAAAAACCTAATGCAGTTTTATTAAGAGAGTCAAAATTCTCTCAGTTAAC
T
GGATATACATAGTGGTATATATCTTAAAGCAGAAAACCCCAAAAAACAAAAACAAGGAAA
AAAGAAAATACATGTCAACAGTCAGGTAAATATTTTACCTGACAGGTTCTACAAATAGG
GGATTTTCACTACATATAAAGGAATCTGTTACATGGGGGTAAAACCTCCAGAGACCAAGT
AGGAAGNGGTGGAATAAAAAACCAATAAATNCAAACGCCACCCAGGCTGG
Sequence 533
CCAGCTGCTNGCCTGCAAAGANGAGCCTCCTNNGGGGGGGGNAAAACCCCNCCNANCC
NGGANCTTGGCCTTACANTNNCATGGGGGGCACTGGGCGCCACCTCANGGAGAAGGG
CTTGCCGGGAAGGNTNNCACGAAGAACTGCATTNNGACCTGGNAGCGGAAACAGGATC
CTGCCAATNTNTNACCACGGGGCACCCACAGGGACACAAACAAGCNCACCCAACAAAGC
CAACCGCCCCNCCCGNGGACCNGCCCC
Sequence 534
CCCGCGGTGGCTCTTGGGGCTAACCTCTCTGCAGATGAAAAGCAGCTGAAAGGAGTTTT
TGGCGNCACCAATAACCCCTAAAACCTGAAGCCTGATTACTGGAGTGACAACTACNTGAAA
GAAGCAGAAGCCGTTTGCTTATTATCGCCGGACACACACTGCCAATGAGCGGCGGCGGCC
TGGTGAATGAGGGATCTCTTTGAGAAATTAAGATCACNTTGGGATTACNTCATTCT
TT
CCAAGGTTTCCAAAAGTCTCATTCTTACTCGAGCCTTCAGNGAAATTCAGGGACTAACAG
ATCAGGCAGACAAATTGATAGGACAGAAAATCTCCTGACTCGAAAACGGAATATTCTGA
TACGGAAAGGATCGNCTCTTTCAGGTAAGACAGAGAAGTGGGCCTGAAGAAGCTAGAGG
ATATTTATGCAAAACAGCAAGCACTAGAGGCCCNNNNNNNNNNNNNNNNNNNNNAAAGN
ACCTGCCCCGGGCGGCGGCTCTAAAACAGGGGGATCCCCGGGCTGNAGGAATCNAAT
CAAGCCTAATCGAAACCGNNACCCNCGANGGGG
Sequence 535
NGGGCAAAGGGAAGNAACAGACACACNCTNNTGGGGGNGGATNAAACCCGGGACCAGAGG
CTCAGNNGGNGGAGAGANCCCTGCTTACCCACCAACCAGAACGNGGCCCGCCNAGAGGCT
GGAACNGAGAGAAAAGAACNCGGGGCTGGCNNAAGAAANANAGACANNNCACAAAAGCC
NAGTNCATNTTTNNTTCCGNNGGGACCGNACCCCGCAGAAANANNNCACAAAGGCCG
CCGGNCAAACGGGGGGGAGCACGGACNGTCAGGNCNCNGGGAAGGGGGCAGCGCAACCCG
CAGGGCNCNCCCCCNGGCCNNNGGAGAACAGGGCCCNNCAGGGGCCNAGGGAC
CGCCAGGCNNGNACAGCCAGGAAGGCCAAAANCAAGAGGGAGAAGGAGAAAGGNGNAAAA
AAGAAAAGGGGAGGNGG
Sequence 536
GGGGANCCCGCGNGGCANATTGGGGGGGAACACACAGCAAAGANACGNNACAGCCTGAG
AGCTTTCCTTGGGGGGGCTTAAAACCCCGNCCGNCATCTATCCATCCATCTGCTCAT
CCNTNCTCCATCTGCGCAACAAACGCNAGAGAANCAATCCTTGGGGCAGATACTGGGGC
TGCCCTCAAGGAGCTNNNATAGAGGNCAGGGGACCTTTGNCGCTNTTTNCTAGGGGANC
Sequence 537
GGNCCCCCGGGCTGCAGGAANNCGANATNTNCTTTAGGGNGACCAAAACCCCC
Sequence 538
GGCACCCCGCGNGGCCCTNNGGGGGGACAAACNCCGCGCCCGCCAGNAACAGGCCACAGCC
CAGAGCTCNNTCGGGGGCNAAAAACCCGGACAAGCNGCANGCGGGGGGACAGGNTGCG
GGNCNTGGAACACTGGACNGGATGGCACANGAACCAAGAACTCCGCTCCGNTTGGCTGCC
CAAGGANCCCAACNCATNCTAANCAGCGANACNGAGGAAACGCNTTTTANNCCGAG

Table 1

GNACNANNNCANAGAACAGGCCNACCGCAAGGGCANACCAAGAAAGGGGGGCGNAAGGAN
AGNNAGGGGGNAACAANGNACCANAGGNCNNCAAANGNCNGACANNCANNCNNACCCNAC
CNCNAAANGCCCNCCNTNNCACAANANCNNCCNGANNGCNGNGNAANAGAAAAACAA
CAAAGACANGGAANNACCGGGCANANNAGCAGAACCAACCGGAAAANGCANGGAGGGNN
CAAAAACACCACCNACAGGAAGGAANAACCCAGAGGAAAAAGGCCGAAAGAAAGAAACCG
AAANANAAGACCNNGGCCGAAAAAGCANNACCCAGGAGGAACCCACNNNCACGAAANCAGA
ANNNCCCCCNCCAAACCANNAACAGGGGGAAAAAANNCNG

Sequence 539

GCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTCTTTTTATAGTTTT
TTTGTTTTGTGATTTTTTTTTTTGGTTTTGTGTTTTGTGTTTTTTTCTTTTTT
TTTGGTCTTAGAAAATCTGAGACACGTGAGGCCAGACAAAGCAAGGCCGGGGCTGATGG
CCTGGCTGCCTGGTGGTTGATGGTTTTGCTCCCCCTACCTTTTTTTTGAGTTATTCT
G
ATTGATTTTTTTCTTGGTTTCTGGATAAACCCACCTCTGGGGACAGGATAATAAAACA
T

GTAATATTTTAAAGAAGGAAAAAAAAAAAAAAAAA

Sequence 540

ATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTATTTGCTAAAAAATGCT
AATGATATCAAACCATCAGCTACTTGTAACTTTTTGCTGGTGGAGGGTTTTGTCTCA
A
TTTTGGTGGCTGCTGACTGATCAGCGTGGTGGTTGCTGAAGGTTGGAGTGGTTGTGGCAA
TTTCTTAAATAAGACAACAGGCTGGGTATATTGCCTCATACCTGTAAATCCCAGCACTT
TGGGAGGCTGAGGTGGGAGAATCTTTGAGGCCAGGAGTTAAGACCGGCCTGGGCAACA
TGGTGAGACCGTGTGTCTGCAGAAAAATGAAAGAAATTGGCTGAGTGTGGGGGTGCATG
CCTATACTACCATCTACTAGGGAGGGTAGGATGGAAGGGTTGCTTGAGCCCAGGAATTCA
AGGNTGGGCCACTGCACTCCACCCTGGATGGCAGAGTGAGATCCTGCCCTCAAATTTTAA
ATNA

Sequence 541

TTTTTTTTTTTTTTTTTTGTTAAAGACACAAGTAGTGATATATCAACATCTGTTTAACT
CGTGACCGTTTCTTTTTTCACTTCTTTTTCTTTTCAGTGCTTCTTCTTCCATTACC
TTTTCTGATTTCCACTTTTCAGTTCCATTCTGTTCTGCTATCTTCTGGTAGCCACAGCTC
A
GCTCCAATCTGCGAAATACGGCACTCTCTTTATTGACTACTGCTTCTCTCGGCCCCCGCG
CGGCCCCGGGAGTACCTGCCCGGGCGGCCGT

Sequence 542

GCCGCCCGGGCNGGNACAAATGTTAAAGACGTTGTTTGTATNTGTAAGGCTGGTGTATT
CAGAGAGCATNATCTCTTATTCCTCACTTCCACCCCCGTATTTGTAATGACCATGAT
C
AATGTTTNTACTTTTTGTNTAATGGGGTGGGGTGGAGTGGGGGCTATCTGAGAGTCANCC
TGAGGTCTTTAGAGGACCANCTATTGTATCACCTTGGATACTTGAAGTTT

Sequence 543

CAANACTTTGGCCANANTAAATNGNTGGAACANAGGTTTCTTTTTAAAAAAGGAAG
GGTTAAAGAAGCCAAACGGTNGCTTTTNGGGGAANGCCANGAAAGAAAAAAGGGGGGA
GNAAAAAGGCCATGNCCATTCTNTGCCCCCTTGGNAATGGAAGCCCCANGGGGGGNAC
ACCAAGCNAAANNAAGAAAAGGCCCCACCTTNATTCTTCAATTTTTAAATTCCTTTA
A
CCAGAACATTCTTCTTTTGGCAACAAGNGGTCTTCCCCTTNGGGATTGGTCGGAANAAA
TCACCCATTGGAAGANTGAGAGAGTNCAGTGGGAAAAGCGGCCACCTTATTCAGTCCCC
TCCCCCTTCTTGGCGTNTGGCAACCAAAAGNTTNTCTGGCGGGGCGTTGGGGACCCCG
TNTTCAAACCAAGTAAGGAAGGGGCCCTTTAATTTTTGGGGACCTTTATTAATGGCTT
N

Table I

AGAAAAANGCAATNGGTAAGNGGCCTTTCNTTGNNGGNGAATNAAGGGGCCCCACGGAAA
AGCTTTTCCCCTTGGAATTGTACCCCGGCCGNACCTTTTCCNAANGCCCCCTTNNC
CCTTTANAAGACCCCCCAAAGGTTGGNTNGGGCCCCCCC
Sequence 544
TCCGCGGTGGCGGCCGAGGTACCAATACTTACTTACAAATTAATACTGCTTCAAGGTAT
TTAATCTAAATTTTACCAACTTTGATTTGTCTGGTTAGGATATTTGTTTAGTGGATA
TGCTTTAATTCGGATCAATTACTGCAGTAAATCTCATCCCTAAGCATGAAATGTTGTCA
A
CAAATACCCAGTTCCATTAGTTATCAATTAGCCCAAATAAGAGATACAAAGTATAACAG
TGACCAACCTTGACCTGCCCGGGCGGCCGCTCGACCACTGACATAGACTGAAAGCAAGA
AGAGTGCTGTGTTTGTGCTATATCCCCTCCAACACCTAAGGCAATGCATTTACATC
TT
GCTGAGAGCAGATAACCTCAATACCTGGGAAC TAGAAAAT
Sequence 545
AGTGAGGGGTAAATTGCCGCCGCCTTGGGCGTAATTCATGGTCATAAGCNTGTTTCCTGT
GTGAAATTTGTTATCCGCTTCACAAATTCACACAACATTACNGAAGCCCGGGAAGCCAT
AAAAAGTTGTNAAAAAGCCCTGGGGGGNGCCCTAAATGGAGGTGGAGGCTTAAACCTT
CAACCATTTT
Sequence 546
GCCGGGCAGGTACCTGATGCAGGGAATTGAAGCCAGACCCAAAACGGGCAACCCAATAGG
ATGGCCATCTGCCCCATTAATGCCAGCTTGCCAAGTGTAATTATTAACAGTGCCCCCTT
TCACTCTCCAAAGAGTNCCTTGTNCAACAGNTTAATTGTGGAAAGTCGCCTTCAAGATGA
CTGGGCGGGTAAAGGAAAGTGGGAGTGAGGGAAGCAGGGTAGGTGGAGGGTGTGAAAGGG
AGAGGGCCTCATCTCAGGGTGGCTTGACCTGCACCAGCATCGGCCTGCATGAAATGTGC
TCCTACTCTTGCCAGGCTGAGTATCAAAGAGAAGCAAGAAATCTAGATAAAATNCAA
TCCAGAAACA
Sequence 547
GCGGCCGAGGTACAGGTAAGCCCTGGCTGCCTCCACCCACTCCCAGGGAGACCAAAAGCC
TTCATACATCTCAAGTTGGGGGACAAAAAAGGGGGAAGGGGGGGGCACGAAGGCTCATCAT
TCAAAATAAAACAAAATNACAAAAAGTTATTTAAAGGGCGAAANGATTTTAAAAA
ATTTTTTGCAATTTACCAATAAATTTTTACCACCGAAAAAGCCAAANTGGCCTTANT
A
CACCCCTTCNCCCCNTGNTGGTGGGGACCTTTTGGGGGAAGGAAGGGNACCTTGGGGGNC
CCAATTTTCCCTTCCCTTTTAAGAAAGAAAGGAAAGTTGGGGGGGTNGGGGCCTTTTTT
TAAGTGGAATNGGGGCTAAAGGGGGGAACCTTTTCCCCTTGTTAAACCAAAACCGCCAA
TTTCNTCCAATTAATTTTTTGGGAAAATTGGAACCTTAATTTAAAAA
ACCCAAAATTGGGTTGGCNAATTCAAAAAAGGTTCCNCTCNGGGCCCCACCCAATTT
TGGTGGAAAACCTTTTTTGGGGGGGGGAATNGCCTTTCGGCCTTCCCCAAAACNCNG
NAACTTGGCCTGGTTCCAACCTTTTCNACCCCGGTTTNNCCAAGGTTTTTTTTTAAAA
T
TCCCCCTGGGAGGTTCCAAAAGGCCCAAAAAAAAAAAAAAAAAAAAA
Sequence 548
GGCGCCGGGCAGGTCCCTTTGTAATATCCTTTATAATAAACAGTAAATGCTGTTTCCCT
GAGTTCTGTGACCTGCTCTGGCAAATTAATCAAACCCAAGAAGGGGGTGTGGGAACCCC
AATTTATAGCTATTCAGTCAGAAAAAACAAGGTAAGACAATCTTGGGGCTTGCGACTGG
CATTGGAAGTGGGGGACAGTTGTGCGGGGCTCAGCCTTCAACCTGTGGGATCTGACGCTA
TCTCTGGGTAGATGAAGTAGAATTGAACTGGGGGACACCCAGCTTGGTGTCCACTGCAGA
ATGAATTGCTTGCTTGATGTCTAGGGAGGCCGAGAATTATAGCAGGGAGGTGAAAAGCA
CTTCTTATATAGCAGTGGCAAGAGAAAAATGAGAAGGAGCAAAAGCTGAACTCCTGATAA
ACCAATCAAGATCTCATGAGGCTCATTAACATAACAAGAATAGCATGGGAAAGACTGG

Table I

Sequence 549

NACCCTCTCAGCCNCCCTGTAATTGCGCNAACNTGGAACGCTGCAACGATTGTCGAGT
CGTATAGCGTCTATGTACATATAGCATNTTCNATAGTCATTGGTGTAGAGATAGAAAAATG
CTTCGTACATGTCAATGGGAGAATGGGTGGTACCACTACACCGGAACTATCCCTAAGTCC
ATCCGCCTGGGGCGAAAGGAAGGAAAAAAGA

Sequence 550

NTATCTTGTTGCCTCATGNGGGCTACACCNACGCTAGNNAGCCCAATGAGACGTTACGAG
CGCGCAAGTNAGAAACNAGATTTTCATAGAGCGCTTGTTGGGAGAGGGACATTCGCAAACC
GCGCGTTTAAGTTACTCGTAGATATTGAGTANNTAAGGNCGTTGGGGAAACGCAACCAAA
TACTCCTAGAGCCTTTGCCGNAACAAGNTACTACANTTGTTCNGGGGGAACGAAGGTGCC
CCGNTCAACCCNTTGGCCCCAAANAGCCCCAAGNCTTCNTTGTNNGGTATGGCAAA
NNNCTTAACNGAACCACATTGGGCCAANGGNNCGCNANTGGNCCCCNTGGTTTTATCENN
NCANTAACCCNANCNAAATGGGCGNCTCCATAGGNAACCTTGTCCCNATGCCCCCTT
NGATATTTCTCGGCATTTTNTGGCCCCNTTTCGCTTTNTAANCGCCANTTACCT
NT
AGCNCCCTTTTAGGCAACATCCTTTAAAAACGGNGCGGAGCGGTGTCCCCCAAGGGCCT
TNCCCCCCCCAAANGCCCCCTTTTGGTGTGCAATTTGGCAAGCCCTTTTGGNAGGGAACNA
AAAGGGGGGGTTGGGGANAACCTCCGGCCCCNACCGCCCCCTTGGNCCCTTGGGTAAAC
TCCAAATNGGGGGGANGGCAACNAAAGGCCCCCTTCNTTGTNGNGNCANTNTTTGGGGNA
AAGAAGNACCCCAAGGNAAGTGNCCCCACCGGGGGGTNNANAAAAAACCCTCCAAAGC
CACCCAAGNGGAACCTACCCCTTANAACTTTTGGNATTANGTTNTAACNAAANNACC
CGNCCAAATTTAANAAAAANANAAGGGCGGATTAAATTTTAAAAATTCNTTGNCCCA
TTNGGGGGTGGAACATNTAAACAAATNTTAAAA

Sequence 551

AGTGGACTNTGTGACCTTGAAAAAGTCATTTAACATCTCTGAACCCTACTTTCTAAGTC
T
CTACAAGTAATATATAGTGGGTGAGGTGTTCTTTCTTTGTTCTGNTACTNGGATGTGA
AA
CTCTCCNTTTGGAGATGAAACCATGGCGTAAGTAATATAAAGACTTTTCCCTGTAGTT
AT
CTTACAGACTGGAGAGAGTGCTAGTGAATGCTTTTGTCTTCAATGCCATCTCTTGGA
TATTGAAGGTGGAGTAGCAACCGGGCATTATATTCTCTTGGAAGGACCTCAGCAAT
GGAGAATATCCCATCATCACAACGTGTCATCACTCTGCCGCACGTGATTGTGGAGAATAT
CCCTCTCCNTGTGAATGCCAGAATGAGATTCAATTACAA

Sequence 552

GGCCGGCCCGCCCGGGCAGGTACTACAATGATTCTGAAGCACAGTGATTTCAGACAGATAC
AGTGAACCAAGTGCAATATGTAAGGATGAAAGAAGAGATGACAAAGAAATCCAAGTA
AATGCCTTGCTTTGCAATGTTTTATNTTAAATCATTAAGGGAAGGGAACCTACTTT
G
CCTTTAAATGNTTATCAAAAGAGTTTTCTAACCAAGNGTAATACCCCTANTTCTTAAC
A
TTTNTTTTCTTTATGTGNTAGTTGTTTTCATGCTACCTTGTGTAGGGGAAAACCTTTAT
TTACAAGACNCATATTTANAAAAGGGCTANATTTTAAATACTCAANATTAATATTTAA
AAGGTTGGCTCCTNGAATTANNAGCCAAGNAAAAATTANTTTTTACCAGTTTTTCAATT
T
CCCAACNANGAAAAATAGGCCATTTCCCATAAACCCCAACCTCCCNANAAATGNAACCCCA
AAGGGGCCAATTATTTATTACGTTATTTTTTGGGGAAGGGGAAANTCCAANNGGGGGGT
T

Sequence 553

CGGGTGGCGGCCGAGGTACCCATCTCTGCCCATCACCGCTGGAATTTTGATGACCTATTG
GAAAAGATCTGGGACTATCTGAACTAGTGAGAATTTACACCAACCCAAAGGCCAGTTA

Table 1

CCAGATTACACATCCCCAGTGGTGCTTCCTTACTTCGAGCGGGCCGCCCCGGGCAGGGTA
CTTCACACCAAACACTAGCTCAAGCACTGACGTTATTCTACAGGACTATGAACCTTCATA
TCCACATTTACAGTCCGGACAGATAAAGGAAAAACAACCCAAATCCAGGAGGCAATATAAA
AGGAAGAGAAACAAAACACACATTCATACACTCACACTTAAAAATAGGGGAAGACCAACAG
GGGAACTTTTCGTTCTCTTCTGGGATGTCTACTTAAAAATCCCATGTGGGTACCT

Sequence 554

NCGGTTGGCGGCCGAGGTACTCTTGAGATTGCTTTAAATTTTGATTGAAACAACAATAC
ATTTTGAAGTGTAGTAATGGGAGCACTAACTCTTACAACAGTTAGTGAATCGTTTAAA
G
AATCAGTTCAGTGTAGACATTTTGAAAAGATTGTTTCTGTGCTCTACGATAGCTTAGT
G
CAATGTGCACTTCTGTTTTACTTGCCATTTTCTGTCTGTGTTTCTCTGTGACATGAAG
C
AACAGAACTGAGATCAAAGTTAAGATTATATCCTGTTTGTAGTATCAGATATTTTCT
G
TGACATTTACATTCAAGTTTGATAACACTGGTGGTTTCATTTCAATACAAATTATGCTA
GAGAACTGACATTTTCANACATGGTCATATATGCTATTTGAATTCCTTTATCTTGATA
CCAGATCTTGGATTGTGAATCTCTTGATGATAGATGTGCAGCTAATTTGTCCCGAAA
CT

Sequence 555

GGGTGGCGGCCGCCCCGGGCAGGTACAAGACCATGACACCGCCCAAACACTTCCTGCAGA
TGTTGTCGTTGGAAACTGTCGTCTTACAGAAGCCAGTTGCAAGGACCTTGCTGCTGTCT
TGGTTGTCAGCAAGAAGCTGACACACCTGTGCTTGGCCAAGAACCCCCATTGGGGGATAC
AGGGGTGAAGTTTCTGTGTGAGGGCTTGAGTTACCCTGATTGTAACTGCAGACCTTGGT
GTTACAGCAATGCAGCATAACCAAGCTTGGCTGTAGATATCTCTCAGAGGCGCTCCAAGA
AGCCTGCAGCCTCACAACCTGGACTTGAGTATCAACCAGATAGCTCGTGGGATTGGTGG
GATTCTCTGTGAGGGCATTAGAGAATCCAACTGTAACCTAAACACCTACGGTTGAAGA
CCTATGAACTAATTTTGAAATCAAGAACTTTTGANNGNAAGTGAAAGGAAAA

Sequence 556

GAGAGCCCGGGTGGCGGCCGAGGTACGCGGGGGGGAGTGGCACTCGCAGCTGCAGCAAA
TCTCAAAATAAAGAGGCAACGGCCTTTCTCTCTCCATCTCTATAGCACACCTT
T
TATTTCTTTTCTTCTTTTTTAAGCCTCACGAAAGATTTTACTTGTAGATCAACTTTCAA
AATGTAGGAAGTCAGAATGGGTGACATCATCAGAAAAATATGTGGAGCTGATCACAAGAA
GTGAAGAACCCAGAGCACNGAAAGCGGTTGTGACTCCTGGGCCAGGGAGTTGACAGCGT
CTGGGCTTCAGAGGAGCCAGCCGCTCCGAGTTGTCTTGAAGTGAGGCTCTGCTGTAGT
CCTGTTCTTCTGGCTCTAAGATCTGAATGTTGTGACCACTAATTTGCTNNTTCTGGA
GG
GTAACCCAGTTTGGTCCACAAGGGCTT
G

Sequence 557

GAGCCCGCGGTGGCGGCCGAGGTACTGGATGTCAGGTCTGCGAACTTCTTAGATTTTGA
CCTCAGTCCATAAACCACTATCACCTCGGCCATCATATGTGTCTACTGTGGGGACAAC
TGGAGTGAAAACCTCGGTTGCTGGCAGGTCCGTGGGAAAATCAGTGACCAAGTTCATCAGA
TTCATCAGAATGGTGAGACTCATCAGACTGGTGAGAATCATCAGTGTCTATCTACATTCTGA
GCGGCCGCCCCGGGCAGGTACCGCGGGGGGAGCGGGCCCTACCGTGTGCGCAGAAAGAGGA
GGCGCTTGCCCTCAGCTTGTTGGGAAATCCCGAAGATGGCCAAAGACAACCTCAACTGGTTC
GTTGCTTTCCAGGGCCTGCTGATTTTGGAAATGTGATTATT

Sequence 558

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGTGTTTGTGAGACGGAG

Table 1

T
CTCCCTCTGTTGCCAGTCTGGAGTGCACGTGGCATGATCTTGGCTCACTGCAACCTCCA
TCTCCTGGGCTCAAGCGATTCTCTGACTCAGCCTCCCAAGTAGCCTGGGATTACAGGNT
GCCTGCCACCATGTCCCGGCTAATTTTTGTATTTTAGTNAANACGGGGTTTCACCA
TA
TTGGTCAGGCTGCTCTCGAAATCCTGACCTCGTAATCCGCCCGCCTCGGCCTCCCAAAGT
GCTGGGATTACAGGCCCCGAGCCACCGNACCTGGCCTGTATTCCCGCTACCTGCCCGGGC
NGCCNCTNTTAGAACTAGGNGGATCCCCGGGCTGCAAAGAATTCGATATTAAAGCTT
AATNCNANTNCCGTCGACCTCTAGGGGGGGCCCCGG
Sequence 559
CGGGTGGCGGCGCCGGGCAGGTACGCGGGGGGTGCCTGGCTCCGTTTCCTGCTTTTGGTT
CTTACAGTAGTCGGCGTAGGCCTTAGGTGGGTTCTGCGCCTTCTACCTCGCTGTTTCGG
TTTTCTGGCTCCTCGGCCCTTTTCTCCCTGTTCAGCTGGGAGCGGACGAAGCCGCGA
AGCTGGGATTTTTACTGTCTCCTGAAGAATTAACACAAACATGGATATCAGACCAAAT
CATACAATTTATATCAACAATATGAATGACAAAATTAAGGAAGAATTGAAGAGATCC
CTATATGCCCTGTTTCTCAGTTTGGTCATGTGGTGGACATTGTGGCTTTA
AA
Sequence 560
GCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGATCGGCA
A
GCGACGCTCATACANGGCNTAGCCCCGGGAGGAACCCGGGGCCGCAAGTGCGTTCGAAGT
GTCNATGATCAATGTGTCCTGCAAT
Sequence 561
CATGTGGGAAGCGCTGTGAAGAGTTGTTGCCTTNCAAGATATACTCCAAATCCCAGTTC
CAGCCCGTGTCAATAAACTCCGCTGGCGTGAAAGATGACATCCTTAGCCCAGCAGCTGC
AACGACTCCGCCCTCCCTNAAAAGGGGGATNCCAGCCTTTAATNTANAGATGAANTTTG
CCTTCCTTTGNTATTTT
Sequence 562
NNNAGCCGGGTATTCANCCTCTACTTCAAAGGCGGGTAATNACCGGTTTATCCACAGAAA
TCANGGGGGAATTAACCGNCAGGAAAAAGANACCATTGTTGTATGCCAAAATAGGGCNC
ATGCTAAAAATTGCNCATGTGGAAACCCCGTTTAAAAAAAAG
Sequence 563
CGATAAGCTTGATATCCGAATTCCTTGACGCCCCGGGGGGGATTCCCACTTAAGTTTTT
TTAAGAAGCCGGGCCCCGCCCCGGGGGCCAAGGGTTACCCCCGGGGGGGGCCCGGGN
AAAAGTTTGGGAAAAAAAAAAAAAAAAAGGGTTTTTTTTTAAGGTNGGGGCNTTTTGGNA
AGGGGTNTTTTCCCCCCCCCAAAGGGAANACNCGGGNNNCCCNGNCCANAACCCG
GGGGGG
Sequence 564
AGGTACCAAGTAGGATAATTACTACTGCCAACACACACATGCACGCATGCACACACACAC
ACAGATGTATGCACGCACACACACTCTCACTCCTAGACTGCTAAAAGCAAAAAAAAAA
AAAAAAAAAAAAAGTCCCTGCC
Sequence 565
NGACCTCGGCACTNAGCANCNCNCACTACTTAGGGGGNGTTAAACCCCCCCCCCCCCCN
GNAGAAACCNCNGCGCCATGAGNTNTCAAGNGGAGGAAGAAGCGACCCGCGCANGCTGAA
GCGCAAAAGAAGAAAGANGAGGCAGAGGGCCAAGNAAACCGNNAGCNNGNNGCACCGNGG
AGGCNTTNTNGNNTTTGNNGGGNGGAANGCNGACGCCCNNGGAAGNANGAACNAAGAAG
CG
Sequence 566
ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGGGGACTGGAGGACCTGTCTGG
TTATTATACAGACGCATAACTGGAGGTGGGATCCACACAGCTCAGAACAGCTGGATCTTG

Table 1

CTCAGTCTCTGCCAGGGGAAGATTCTTGGAGGAGGCCCTGCAGCGACATGGAGGGAGCT
GCTTTGCTGAGAGTCTCTGTCCTCTGCATCTGGATGAGTGCACTTTTCCTTTGTGTGG
GA
GTGAGGGCAGAGGAAGCTGGAGCGAGGGTGCAACAAAACGTTCCAAGTGGGACAGATACT
GGAGATCCTCAAAGTAAGCCCCCTCGGTGACTGGGCTGCTGGCACCATGGACCCAGAGAGC
AGTATCTTTATTGAGGATGCCATTAAGTATTTCAAGGAAAAAGTGAGCACACAGAATCTG
CTACTCCTGCTGAC

T

Sequence 567

GTTTTGGGGGAACACCGCGGNGGCGNTTTNNGGGGTANACCGGGCCACNCACCANCNNCAA
GGNCGAGGNNNNNTNNNTTNGGGGGGTTTAAAACCCNCCCCCNCGGGCNNNGNAGGCCG
NCANNANTTTTTAGNNNGGGGGGGGGGNGCCNCCGAAAANCCCGGACCTGNCCGGGC
GGGCGTTNAGAACNAGNGGANNCNNNGGCGNGGAGGAANNNGNANNAAGTTTTTTTTT
TTTTNNGGGGNNNGGGGGGGGGCCCCNTAAAAAAGGNCCCCNAGNGGGG

Sequence 568

GCGGNGGCGGTTTTCGGNCGAGCCCTCTCTTGNCCATCTTCTCCCGCTGCTGAAATTTCT
NTTGCGGGCGCTGNAANCCAGGACCCNCCCCCGCTACGCTGGATAGCCTCNTGGCC
AGAAAGAGAGAGTAGCCGCCGAGCACAGCTAAGGCCACGGAGCGAGACATCTCGGCCCGA
ATGCTGGCAGCTTCAGGAATCCCCGCGNACCTGCCCNNTGCGGTCTGTTTCGN

Sequence 569

ACAAAAACCCAAACCCAGACAGCAGNAATGNCAGAAGANCCANGGAGAACAGCAGAANC
TNACACCGCNGCNCTCTGAAGGCTGAGAACACAAGNCAANACATNNAACTNAAAAACAA
CCGCTGAGAGAACACGGGAAAAATNTNCANTTTAGAGANGNCCACAAAAAGGACACGC
AAAGGGGAAGGGCAAGGCGGNGAGACAACGACGNNANNCNNGGGAAGACNGGGGAGGGGG
NGGAGAAGAGCCNNGGNGGCCAGANNCCGGNCGGAGGNCACGAGGCGGNGACCCACAAG
GGACCNCCCCGGGCGGNCGGNCGNAGAACNAGGGGAACCCC

Sequence 570

GCGGNGGGCCGGGTTTTTTNNGGGGGGGGCAAACCCGCCNGGGANGGAAGGAAGGAAAAA
ANGGGGAAGGCCAAGGGNCCGATTTTTTTNNGGGGGGGGGGNNNAAAAACCCCGGGGNG
GGGGGAAACGGGGGNNNNAAAAAANGGGGGGGGNAATTTGTTAAAGGGGCNNAAA
AAANGGGGGGNAANCCNCAAGGGGGNNGGGGGNCCNNNGGGGGGGGAAAAAAC
NNAAAAANNNNGGGGGGGGGGNAANNNNNNGGNNNCCCCNNGGGGAAAAA
CCCCCCCCCCCCNNGGGGNGGNAANTTTTTTTGGGGGGGGGGGGNNNNAAAAA
CCGGGGGGGGGGGGGGGGGAAAAANCCCCCNAAAAAACNACNCCCC
CCCCCNNGGNGGGGGGGGGGGG

Sequence 571

CGGTGGCGTTTAGGGACCAAACGATAGCNGTTCTGTTTAAGTAGGGACCTCTCATGGTNT
NCAGGCTNTGACAACCGAGAATCAAAGTGGAGAACATTCCGAAGCCGTTCTTATAAGNGT
CTCCATCTCTACCTGGGCTGAAATGGAATGTGCAAATGTAGCCAGCCTGGTCTTGGGT
GTTGCCAGTTGATTGATGACTGGGAGCCAAAGTGGCATTNCTTNGACCTAAACGGGCGA
TGATGAAATAAATCGAGCGGCCGCCCGGGCAGGNACATCTGTGAATGTGAATGCCAAAGC
GAAGGCATCCCTGAAAGTCCCAAGTGTATGAAGGAAATGGGACATTTGAGTGTGGCGCG
TGCAGGTGCAATGAAGGGCG

T

Sequence 572

TGNAANNCCCCGCCACGGAAGAGNGGCCCNAGCCAGAGCTCCAGCAGCCCNGGGAG
GGCGGGGGCCGAGGCANGGANAAGNGGGAAGGAAACGAAGAACAGGAGCAGAANNGAAG
AAANACAAAGNGAAANGGGGCCAGNCAGCATGTCAGAGACNGACCACAAAGCCCCACNN
CCACNGAAAAAAGGNGGAAAAACACCGGAANNAAAGGAAGACCAAGCAACNNGGNN
CNGGCAANGAAAGCAGCAAAANAGAAAANGAGGCCAAACCAANGGCAANAAACACCG

Table 1

Sequence 573

GCCGCGCGCCGCCCGGGCAGGAACANAGCACTNAGGNGNGNCGGAAACNCGGCANGGGAC
AGGACANAAAGGAAAACANAAAGANGCAAGGGGACACGACACANANGAAAGGNGAAGGG
CAACGNCGACCAAACGGGGNAGAAGACAAAAAACCAAAA

Sequence 574

NGGGNNGGGTNTTTGGGGGGGGNAAACCCACAAANAATACNNGGAAGGGNNGNNGNNGG
GGNNGGAATTNTTTNNGGGGGGGNNGGTAAAAANCCCAAANCCNAAAAGGGGGGGGGGGG
GNAAGGGGNAAAAAATTTTTNGAAAGGGGGGGGGGGGGGGGGGAANNCCCCGGGGAA
AANNAANGGGGGGNGNNGGGGGGGGGGNNNNNNAANNANNNNANGGGGGGGGGGGGGGNN
NNAANGGGGGGGGNNNNNNNNNNNNAANTTTTTTAAANTTTTTTTTGGGGGGGGGGG
GGGGGGAAAAANCCCNNGGGGGGNGGGGGGNNNNNGGGGGGNNNNCNNNCNNNNNNG
GGGGGGGGGGGG

Sequence 575

GGAAANACACACGCCAGGAACCNNGCAGCNNACAGNGACAGAAATTNNGGGGGNCGANAA
ACCCACNCACCCCGANNNCNNGGANCNCNAGGGAANGAGTTTNGCNCACCGGGNNGGCC
CTCCCCCAGAAACNNANGNCCACAAGNCACTGGGCACAGANAAGAGNGNCGGNCNCAA
AACNCACAGGGCNCAGGGTTNGCGTGNTTTGGGGGGGGGGANGGGNNACCCCCCGGAA
AAGAGGGCNGGNNANCCGGGNNCNCNNGGAGAAAGANGGGGANNACAGNCCANGACACN
ACANGGNAACANAACNGAGNNNNCAANNNGAGCAGNAANNCGGGGGNC

Sequence 576

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGTAGGAGCCTCTCTCCCTAC
TGCTGCTACACAAGACCCTGAGACTGACCTGCAGGACGAAACCATGAAGAGCCTGATCCT
TCTTGCCATCC

Sequence 577

CAGGTACAGAGACCTCCTTACTTACCCCCCTTCTCCTTCGGCTGGAGCTCGGCGAGCGAG
AGGCGGCGCTGGCGTTGGAGAGCGACGGCGGCCCGCGTAAGCAGTGGTAACAACGCAG
AGTAACGCGGGAATGAAGAATCTTAGCGGGGTGCACCCAGTTTCCACCATGATTAAGGGT
CTTTACGGAATAAAGGATGATGTCTTCTTAGTGTTCTTGCATTTGGGACAGAATGGA
ATCTCAGACCTTGTGAAGGTGACTCTGACTTCTGAGGAAGAGGCCCGTTGAAGAAGAGT
GCAGATACACTTTGGGGGATCCAAAAGGAGCTGCAATTTTAAAGTCTTCTGATGTCATAT
CATTTCACTGTCTAGGCTACAAC

Sequence 578

GCGATTGGAGCTCCCCGCGGTGGCCCCGCGGGCAGGTACCTCACAACGAGTTCAGTCAG
TAGCAGAAGGATCTTCTCTCTTGTTCCTGATGATTTCAAGGTCTCACAGTCCTGATA
AT
CTGGTTCTTCCCGAAACTCCCAAATATCTATGGAGAGCTGTTCTAGCTTTTGACAGGGA
ACCAAGTGACAGAGGTATCATTAAACATGTCCATGTATTGNGAAGTCTGAGGAACTCAA
GCTCCTCCAGTCCTTTAAATCTTTGCAATGTAGGGATAATTTTCTGCAGAATCCTT
G
CCAACAACCTCTCCTCAAGTCCTTTGAACTGTTCCCAATGATGACCATCTTAGAAAGGG
CATCTACTGACCAGTTACTCCATAAAAGATTGTTGTACCTCGGCCGCTCTAGA

Sequence 579

ATTGGAGCTCCACCCGCGGTGGCGGCCGAGGTACTTTGGACAGTGAGGGTTCGATCCCAA
TTTTAGGGGTAGGGTTGGGGGTGGGAGTGGGAGTGGGTTGCCAGGAGGAAGAATGAGT
CTACTTTNGANACAATTAAGTCATGGNCCTCTCTTTTTTTNTTTTTTTTTTTGGCT
ACNTAGACNTCTTCTCATGTATTGTTACTAGAACAACCTNTATAGGGTTTTATGGTTN
G
GGGAAAACATTNNTAAAAAATGGACTNATCTCTATTATACAGANNTATAATATAAAAAATG
ATTTAAAGGCTATATTTTCAGCATGTAGGTAGCTNCNCTGTCANCTGTTGAAGAAN
CT

Table 1

TTCTATTTAAGCTTATAGGATGAAAATATATAATTAAG

Sequence 580

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCATCCAAATGCTTCCCTGGTCTTGATGAT
CTCTTCAGAGTCGATCTGAGTGGCCTTTTCTGCACCCTCCCCTTCTTCTCTTTGAA
TG

GAATTAAACCCAATTTGAAAACAACATTGACCCAGTCAAAGCTTCTAATGGTTTCTTT
T

TCTTCCCTCCAGTTTATGTTTCTTTTATTAAGAAAGAAATAGTGCATGGCCATAGCT
C

CTTCAGTTCTCTTATTGCAGACTAACCATCAGGATGGTATCAAAGCACAAATACTTTGGA
GGGGAATGCGTTGAACTGGGGCAAGTACCTGCCC

G

Sequence 581

CGTTGCGCTCACTGCCCGCCTTTCCAAGTCGNGGNAAACCTGGTCCGTGCCAGGNTGCAT
TAAATGAAATCGGCCCAACCGCCGCGGGGNAGNAGGGCCGGTTTTGCCGTTATTGGGGG
CGCCTCTTTTCGCTTTTCTCGCTTCACTTGACTTCGCTGGCGCNCGCGGTTCGTTT
CG

GGCTTNGCNGGTGCGNAGGCCGGGTANTTCAAGTCNTNAACTTCAAAAA

Sequence 582

NTNGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATTGTTAAATACTCGNAGGCCTTTAG
GAACCTGTGACTGANTNCATAAATANCAGANCCTATATTGTGATGNTGGTNAAAGGACAN
GTGCTCANCTCCAATTACA

Sequence 583

ACCCTCCTGGAACCGNAATAAGTTNNTGGGGGGGGTNAACCCNGGNCCACNGAATNNNC
GGACCACANGANCNAACTNAAGGNCTAGCTCANAGAAAGCAAGNGNCAAGCNGGGCANT
AGCTGCTGCTTCCCCTGGNGGAACATNGCCTGCTNCCTCATAANCCATNNCCAGACAAGC
AAACATTNGTTNGGCAAAGCCGACANCNACNCCAACNACAAGAGACACTAAAGNGCNGNC
NGGGGGGGCTNCCAGGGGAGANGAAANGGGAAGNCGGGCNGCAGCAACNCNGGNCAAAAA
AAACACCAANNNCNGGGGCNCAANGGCACNAANCAGAACGGCNCGCCNNNGGGANCCAC
AGCNAAGAACCGGCC

Sequence 584

TTGGTTATACAACATTTGTTTAATAAATGCANTTTNCAAAGCTACACANGACTTAGATA

T

TGAAGCAGAAAAGGTGGTTTTACAGTCCCTGCATTAACCTCTAATTCTTACTACCCTGGC
CAAGAAAGCATTTTCACCTCCTGCGCTTTCCTTCTGTGTGCTTGTGGTTGGTTCTTT

CT

TCTCAGGCTTTNTNATTCTGATGCTGAGATAGTTCTGTTCACCTTAGCAACTGGGACA

GT

GACACAGGGTTTGTCTGTACAAGCAGGTTATCCAAGAGGCATCCATACCCTGGGTTTTC

CTCCAACCATAAGGAAAATTGATGCAGCTGTTTCTGACAAGGAAAAGAAAACATACT

TCTTTGCAGCGGACAAATACTGGA

Sequence 585

AGGTACCTGGGCCACCAAACACAGCTGGACTCAATATATGGGGAAGGTAAGTGTCTCAG
TTTTTGGAGAGAGATTACCCTCTTCCAAAAGAGTGCTTGATTCTGGTAGTCCAAGCTGTC
TCCGTCTGGTGGCACCCCAATTTCCCCTGCCTAGACCCACCTCCTTTCTCAGCCCCCTT
CGCCTGCCGCTGAAAAGTGAGAGCGGGCTCTTGCCTCCCCCGCTACCTGCCCC

Sequence 586

GGGGGGGNAAACCCNGAAGANGCGGNNNACGCCNNNCAGAGCCACANNATTTTTGGNCGA
AANAGGGGNCCAGNNCCGAGGAAGGNGGAGGAGGNCNGNAGGNACCNNGGGCGGNNNAGA
ACNAGGGGANCCCCCGGGCNGGAGGAATTTTNNATTTTTTTAGGGGGGNGGGGNNCC
CCGGGGGGGACCGGGACCCAGNNNCCNGNNNGGGGGGGG

Table 1

Sequence 587

ATTGGAGCTCCCCGCGGTGGCGGTGCGGTGAGCTTTAAAGCATCATAATGACTAATTATA
GGTGAATAATTTACAGACAGTCTATATTCTAGGAGGCAGCTGTAGGCGTTTTAATTGGA
AATAAGCATTCTGAGATAATGATAATAGCAGTGTAGAAAAATGAAGCTAAAAAATTCAA
AGTGTGAGAAATCCTCCTGCTCTCTGGGATTTTTATTTAATCATCTCCTCCACAGAG
A
ACAAGCAGNACTTTTTTTTTTTTTTTTTTTTTTGGGGGTATTTTATGCACAAAGAGCC
ATCGTGGTTTTTTATTAGGTAGATGCCCTGGATAATCCTTCAAGGAAGATCACTTAGT
C
CAACTTAATGAAACCAATATCCTTCGCATAC

Sequence 588

GAACACCGAAGAGCCAGANTNTTTAAGGNCAGAGAAANCCCCAGANNGCCGAGGNACGGG
ANAAGAACCGGAAGGGAANGAAGGACAGGGAAGAGACCAANGACCGGAACCCNCCNCA
GACTANGAACAAGCAGAGGCAGAAGCCAGGCACCNGGNCNANGAANCAGACCAAAACAAG
GATGNNAAAGCNGNCNAAGGAGGAGAACCGCCGACAAGNANGACANAAAAGACGGCAGCCA
GGNNACAGAAANNNGGGGAGGCCNNAGNACCCCGGCCGNNCCAGAACCAGAGGAACCCCCG
GGCNGGAGGAANNCGANANCAAGCNNAANGAAACCGGCGACCCCGAGGG

Sequence 589

GCAGAACAGACTTGCAGCCGACCAATTTTTGGGGGGATNAAAACCNAAANCCCGGANTNC
ACCTTTCCACTTTTTGAGGACANTGGCCAGGGGCNCTGGGCTACCCGATGACAAAGCAAA
NCAGCACAGCATCCCGAANCAGGGGAAGAGAGGGGGCGGACANTGGCANAGGAAGGAGAA
CCCGAAGTGTNCCACAGGCNCAACNCTANNCCNNGGGGGGCGAANNCAAAACCGGCCGGG
NAANNCGNAAACACTGGAGGAACGNAAANCNCGGGGAAGCAGNCCCNGGCGAAG

Sequence 590

GCGGNGGTTTTTGGGGGGCAACACGCGGGACNGCANGCCACNGNCNAGAGCNNGTTTTT
TGGGGGGAGAAAAACCCCGCCCCCGAACGCCGANCAACCNCNGAGACCCACCTTGNCTCA
NAAACAAAAGGCCANGCCCGGACCACNGCCCCGACCNGGGACAANCNGGACNANNNCN
GGGNNNAANNNGGGCCGAGNGGAACAACCATATAANAAATTNCCNCGGGNNGGGGGGAGC
CGAAGAANNAACNAAAAAAAAAANCCCNANANGGGGGGGGGGANGNACCCNGCCCGG
GCGGCCGNNCAGAACNAGGGGANCCCCCGGGCGGCAGGAANNCGANANCAAGCCNANCG
ANACCGNCGACCNCGAGGGGG

Sequence 591

CGCCCGGCAGGTACTCAGGTTTTATCTCTGCACTCCAAGTAGGATGAAANGATAAGAGCA
AAGGCTCATGTTTGCCAAGTCTGTCTTTTGTAAACAAAAAACCAGCAGCTTTATCAAGC
AGAATTCACCTGTATTTCTTAACCTGCCAGAGCTGAGTCTCATGGCCACCTTAGCAGG
AGTTGGGGAGGTATTTTAAACAAGGCATTATCATCTCCCCACCCAAAGTGGAGCTAT
TGCTAATGAAAAAGATACAATGAGATGTTTATGAAATTATCTGTAGCTATTAATGTCAG
G
TTTTTGAAATTTACTGACCTGGAAGAATACTCATAATGCAATGTCAAGTGAGAAGCAGGA
CAAAGA

A

Sequence 592

TTGAGCTCCCGCGGTGGCGGCCGAGGACTTTTTTTTTTTTTTTTTTTTTTGGCCACG
C
AATTAAAAAATTTTTTTTTTGTAAAGACTGGATTTGCCATGTTGTCCAGGCTGGTCT
G
GGATTCTGGCCTCAAGCAATTCTTCTCTCGGCCTCCCTAAGTGCTGGGATTACAGGC
ATGAGCCACCATACTGGCCACTTCTTATTCTTGTGGCTTGGCGTNNCCGATTAA
AA
TTGGNGAGAAGTTCTTCTCGGCTGGGCTGAGGACCCGNGGTCATGGGTGGATCTCATGGAG
AGAGGGCNAGGACAG

Table 1

Sequence 593

GTGNATTGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACATAACTCCCGCAGGATCT
CAGGGCCTGCCGCCCCATTATGATGATGTCGAGGTTTTTCATCCTGCAGCTGGAGGGAGAG
AAACACTGGCGCCTCTACCACCCCACTGTGCCCTGGCACGAGAGTACC
T

Sequence 594

CGAGGTACAGGTGCGATTCTGGATGACAAAAGAAGATGCTTACTTCACAGAAATTCGAAA
TTTCATTGGGAACAGCAACCATGGCAGCCAATCTCCAGGAATGTGGAGGAGAGAATGAA
TGGCAGTCATTTTAAAGATGAAAAGGCTTTGTGAGCGGCCGCCCGGGCAGGTACTTTNT
TTTTTTTTTTTTTTTTTAAAGGAGCTTTATTGTTTTAGTAATCTTAACATAACTTAA
AATAAGAGAGGGGAAATGACATCTGGAGATCTAGGTATGTGGCCCATTTGCAATTGAGCAC
ATTTCTTGGGTCTGTTTCTCTATCTCTAAGGGCAGTCTCAAACCCCAAGC

Sequence 595

TCACGGGTGGCGGCCGCCCGGGCAGGACATGGCCACCAAGTAAGAATGGTTGGTGACAAC
GACAGAAGGCTAAAAACAGGAAGGTAATCTTGTGCACCTGACAAATAGAAAAGAAATAAAGGA
TCAAAATTGAAGGCANGCTATAANAGTATCAAAGAAATTTCTTAAAAACCAANAGTGAT
TTTGAAGCACAAAACTTACNGTTAACTGCTTNCCCAAATGTTCAATGATTGTGGCCCA
AAGAACANTTTGNGGCATTNCTAAANTTTAGAAAAAATTGCNNATNTGCNAAAAAATTTT
TANAATNGGGANACACNACCTACCATTTTTTTTTTCTAAATCCNAAATTTCTCCCCCCC
C
TCCTTCCCAGAAANAGAGAAATTTTGNTNAAACCTTCAATNT

Sequence 596

TGAGCTCCCGCGGTGGCGGCCGCCCGGGCAGGTACTATTTAAGAAAAGAACAAGGTTAAC
TAACTAAAAGCAGGAACCTCACTTATTTTTTGCTCCCTAGCCAATTAATAAAGTTTAT
T
AAAAGCACTTGAAATTATATATTTAACCTGAAAAAAGTTGCTAAAATTCCAATATAAA
TGTAATATCTTTAAGTTGCTTAACCCAGCTATCCCCAAAACAGTGTAAGTGGGGCAAAA
TGTTCAAAAGAAAAATCATCCAGTGACGTAAGATGGGGCACCCAAGAAGGCTAAGCCTT
CCTTGNGCCGCTACCCCTCGGGCCGCTCTAGAACTAGTG

Sequence 597

CCGCGGTGGCGGCCGCCCGGGCAGGACTTTNTTTTTTTTTTTTTTTTTTTTGGATTAC
TC
TGATGTTTATTTAATGCATCTTAGTCCACACAGTTGGTATAAAATCAGAAAATGCAAA
G
CAAAAACAAAAGGTCTGGAGTCTTAGCATCAGAAGGGCACCATATATACATCTACAGTTG
GNGGCCAATACAAGTCATTGCCAGACAGTCTTGGAGGCACAGAACAGCCAGACCCAGC
CAAGCTCTAGGAATTCACGGGTCCCAAGGGGTNTAGACCNCTTGTCTNGATGCTCCGA
ACCCGTAAAAAAAATGTGGGGAAGTTGATGAAGGCTTTTATGATTTACTCATTATCCCC
GCGTACCTNTGGC

Sequence 598

TCACGCGTCCGGGGAGGTAGTAGAAAGGCGCTGGGTGTTCTAAAATAAGGCTCTCCTGGC
CCACGGCTGACTGTCTTCTTGTGTCTTACAGTGGACCGTGACTCTGGACCCAGACACG
GNCTACCCAGCCTGATCCTCTCTGATAATCTGCGGCAAGTGCGGTACAGTTACCTCCAA
CAGGACCTGCCTGACAACCCCGAGAGGTTCAATCTGTTTCCCTGTGTCTTGGGCTCTCCA
TGCTTCATCGCCGGGAGACATTATTGGGAGGTAGAGGTGGGAGATAAAGCCAAGTGGACC
ATAGGTGTCTGTGAAGACTCAGTGTGCAGAAAAGGTGGAGTAACCTCAGCCCCCAGAAT
GGATTCTGGGCAGTGTCTTTTGTGGTATGGGAAAGAATATTTGGGCTTTTACCTTCC
CA

ATGACTGGCCTACCCCCCGNGNCCCCCGGTTCCACCGGGGTGGGGGGAT

Sequenc 599

Table 1

ATAGAGGTTCTGACTCCTCAGGAGCAAAAAACATAACCTGAAGAGGGAGGAAGTGGATTT
GGGGTTCACCATTTCTTGGGGCACACTTGATTGAAAACCTGANACTTCTGAAGAGAAGGCC
AGAAGATACAAAGACAGNCCATNCCAGTTGAATGCTGTCTTCCAAGAACAGAGAAAATG
ATCCAGGCCCAGGAATCCATAACACTGGAGGATGTGGCTGTGGACTTCACTTGGGAGGAG
TGGCAACTCCTGGGCGCTGCTCAGAAGGACCTGTACCGGGACGTGATGTTGGAGAACTAC
AGCAACCTGGTGGCAGTGGGGTATCAAGCCAGCANACCCGGATGCACTCTTTNAGTTGGA
ACAAGGNGAA

Sequence 600

AGGTGACACAATGGCCGAAGGCTCCATGGCGGCTGGCTTCTTCCAGCCCTTCATGTCACC
GCGCTTCCCAGGGGGCCCCCGGCCACCCCTGCGGATGCCGAGTCAGCCTCCCGCAGGCCT
CCCTGGCTCCCAAGCCCCCTCCTNCCTGGCGCCATGGAGCCCTCCCACGAGCCCAGGGGC
ATCCGAGCATGGGCGGNCCAATGCAGAGGGTGACGCCTCCTCGTGGCAGTGGCCAGCGTGG
GGCCCCAGAGCTATGGAGGTGGCATGCGACCCCCACCCAACCTCCCTCGCCGNNCCAGGCC
TGCTGCCATGAACATGGGCCCAAGGAGTTCGTGGCCCCGTGGG

Sequence 601

AGCNCTNAGCTCGACGCGAAAAAAATAAATAAAAAATTAATAAAATCTGTGCAATAATTT
TAAATGTGCTCCCAGGAATAGACACAATGTTTTGAGTATCTTTAAGCTGCATTTTC
C
TTAGTGATGCATTTGTCAATTGCACTGAATTTAAATCTGAAAGTCAGAGGTGATTATT
G
ATAGTACTTTTGATTTTGATATGGACAGTTTATTCATTTGCATACAGTTATTGACTTTT
TCCCAGCTGATTAAGATAGTCAAGAAATTCTGCAATATAGCTGCCAAAATAGACAGCT
ACATTTTATGATATTGTATCTTTTCTGNTTTTTTTTTCTTTTTTTCTTTAGCTATT
TACTTAAGCATAATAGCCACAATAGGACATATAAAGATTATAAATACAGA

Sequence 602

CAAGATCGGNGCAGCGACGCTGCGGGCTACCCCCATGCCACCCATGACCTGTAGGGACCA
CCTCTAGATGCCTACTCGATTCAAGGACAACACACCATNTCTNCGCTCGANCTGGCCAAG
CTGAACCAGGTGGCAAGACAACAGTCTCACTTTTGCCATGANTGCACGGNNGGACNCGGA
TTCGCCGGAATNTGNACTCCAGCTCTCCAGAGGATGNAAGGCTANTGGGCAAGTTTT
TGGGATGCCATTCTANCTCATAACCCACCCANTGAACTNCAACCCNATTTTCNCAANA
NAACNTTAAATTTGGGCTTGTNAATAAANTCCNNGNGCCGGCACAAGGGCCGCCCAAA
CCAT

Sequence 603

GTCCGGGAAAAATTACCTGTCTTGACTGCCATGTGTTTCATCATCTTAAGTATTGTAAG
CT
GCTATGTATGGATTTAAACCGTAATCATATCTTTTTCCTATCTATCTGAGGCACTGGTG
G
AATAAAAAACCTGTATATTTTACTTTGTTGNAGATAGTCTTGCCGCATCTTGGAAGTT
T
GCAGAGATGTGTGGGAGNCTAGGAAAAAAGCCCTTTTCAGTTTTGTTGC
CACTNGTGNTATTGGGACCCGTGTTAGNATTTGTATGCCAAGAATTTTCTTGAAAAT
GG
AAAATGNTTTTGNNTTTAGNACCGNAGNATTCATACNCCGGTTAAAGGCANGGNAAT
TNGACCAAAAAGTCTTTGGCTTTTTTTCTTGGGTAATTGNTTCTTAAANGNTGGTTA
T
NTTGGTGGANCTTTTTTAACCTGGTTTAATAANTTTAAATNTGGCCCCAAATTAATT
A
NAGGTTTAAAAATNATTAAGGNAATTTA
A

Sequence 604

CCCGCGTCCGAGACAATACAAAGTTACATTTTGGACCATATTAACCTGCAAGAAGACA

Table 1

GGGGTCTTACTGAAGATCTTTTAGAAAACCTAAATCCTGTCACAGGATATTTAGACATG
T
GTAGAATGTAGCTCAATTTTTTAAAAAGTAACTGACCTAGAGGGTGAAAGTTGAACTGA
CACATTTTCAAATTTAAGATTATGCTTATTTGTACAGAAAACAATGTTTAAACACCANA
GGCAGNATCTTGTTGTANTGTATATAACGCTAACACCAGGAGTTTTTTAAAAACCANAA
ATTTAAATTTA!TTTTANGCTTTTAATTGGAAAGGNTTGGTTTTNTTTTTCTTTCC
GAAACCCTGGGAGTTATTCAATTAATTTAATTAACAGGGTNAGTTTTTTNAANACC
C
NAAGAAANTTAAGGCCAAGTTNGCCCCCTTTTCTTTTTTTTTGNTAACCATACCTT
G
GNATTTTGGGGAACC
Sequence 605
CTCCCCGCGGTGGCGGCCGAGGTACCCAAATACCACTTCAGGAAATCTGGCCAGATCACC
TGAATCCAAATGTTCTATTAATTCAATACAGTTATCAAGTCAAATCCAAGCAAACGAGA
GTCTCTCTCCACAACGGAGCCATGATACAATGTGATGGTCAAATTCAGATCCCAGGTTT
CAGAAAATCCCCCAGGAAAGGAGCTAACGAATCCCCTCTCCATCGTAATTTATCCTCATT
AATATCTACTCCAACAAGCAATTCAATGCATGGATTGACTTTTAGCAGCCTTAAGAGTGA
AGTATCACCACATCCCAGGTCTGCAACCTTCTTAGGCTCATGTTGATCCACTAAATTTT
T
AACGAACTGGTACCTGCCCG
Sequence 606
CTNCCGCGGTGGCGGCCGAGGTACTTACAAATAATTACTGGCAGTAGGTTATAATTGGTG
GTTTAAAAATAACATTGGAATACAGGACTTGTGCCAATTGGGTAATTTTCATTAGTTG
T
TTTGTGTTGTTTGATTTGAAACCTGGAAATACAGTAAAATTTGACTGTTTAAATGTTGG
CCAAAAAAAAAAAAAAAAAAAAAGGTCCGCGGGGGCGGAGGTCAGGGACAAGATGGTG
CCACCGGTGCAGGTCTNTCCGNTCATCAAGT
Sequence 607
CGGCCGATGAGAAGAAGAAGGGGCCCAAAGTCACCGTCAAGGTGTATTTTGACCTACGAA
TTGGAGATGAAGATGTAGGCCGGGTGATCTTTGGTCTCTTCGGAAGACTGTTCCAAAA
CAGTGGATAATTTTGTGGCCTTAGCTACAGGAGNAGAAAGGATTGGCTACAAAAACAGN
AAATTNCATCGTGAATCAAGGACTTNATGATCCAGGGCGGAGACTTCACAGGGGAGAT
GGCACAGGAGGAAAAAAAAAAAAAATAAAAAAAAAAACGAANGGTACCCTCNGGCNCGTT
TTTAGNAACTAGTGGGATCCCCCGGGGCTGCAGGGAATTTCCNATATTNAAAGCTTTTAT
TCTGGANTACNCCGTCCGGACCTTTCGAAGGGGGGGGGGGCCCCCGGGTNACCNCAAGCC
TTTNTTTGGTNTCCNTTTTAGTNGGAGGGGGGTTT
Sequence 608
TTGAGCTCCCCGCGGTGGCGGCCGAGGTATGCGGGAGCTGAGAGAACAGACACAGACCTG
TCGGAAGGTCTCTGCAGGTCCCCCTTCCGCTCTGCCGATCGACTTCGCTCGGGCAGT
CAACATACTGCCAAGGAAATCTGATGTGGAAAGGAAAATAGAAATAGTGCAAGTTTGCTAG
CCGGACACGCCAAGTCTTCGTTTCGATTATTAGCTTTAGTGAAATGGGCTAATAATGCTGG
CAAAGTGGAATAATGTGCGATGATTCAAGCTTTTATGATCAGCAAGCCATCCTGTTTGT
GGACACTGCTGATCGCCTGGCCTCGTTAGCTAGAGATGCTCTGGTCCATGCACGCCTGCC
TAGTTTTGCCATCCCATATGCCATTGATGTACCTGCCCGGGCGGCCGCTCTAGAAGTAG
Sequence 609
CGCGGTGGCGGCCGCCCGGGCAGGTACTTCCGCTTGCCGTTAGCTTGTGGAGAACGTGC
TTCTTATTCTGGCAGGCTTCAAGAACAGCTGCACATGTGCCGCTAACTGACCGCTTGC
CATTGGCGACCTGGACTCTGAACCTCAGGTTTATTCTAAACCCAGTGAGAGGTGAGGGGGA
GTGATGAAAGGGGATCAGCTGTATTTGTGTGTGTGTGTGTGAGCACCTGACAAATCTA
TGAAACCCGAGTGAAAGGAGAAATGTTAGATTCTTTATTATTTATTATATTATATGGA

Table I

AAGCTCGACTCTCCCTTTGGTAAGTCCGAAGCA

Sequence 610

CCGCGGTGGCGGCCGAGGTACTGCGTTTTTTTCTATTATAAAAGTGATACTGAAATAT
GCTAATTAATATATTAATTTTAGTTAAATGCTGCTAATATGCATACCTCTTACTTGAAGG
TTTTAATATGTTTTGATAACTTTAATAACTTCAGGGTGATGTCTGTATAATTTTTAAAG
TGCAGCTCTCTCTAACAATGTGCCCTACAACCTCTGATTAAACCGGCGTCTTGAAGGTT
CAAAAAAAAAAAAAAAAAAANGTACCTGCCCG

Sequence 611

GTGGCGGTGCGAGGTACTTANGAGAAATTGGCATGCTTTGCTAATNTTATGCAGAGGTAA
CCATGTTGANNACATATGTANTGTTGAGAGGNATGTCTAATTTTATGGTCNTAGGAAAAA
TAAAGAAAACTGCTGCTTTCCTGAAGTCTGAAATANAATGTTTACAACCTGACNAGG
ATCCATTTGGTGGCTAGNCTCGCCTTCAGGGNGGNAAAGAGAATATGCCAGTTCTGTNG
TATGGACTNTTACANAAGCTAAGGNAGGGNAGTTCTTTCTTGGTGGNGACAAGTTCC
TGCNCACTTAATTTTCCCTCTGCTGCTTCAAACTGGGAAA

A

Sequence 612

GAGCTCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAAGAAGATGCAGTTCAAAATACTG
CCAGTTTTCCAAGAAATTTGTAAAGTTGAACATGGCCATCTACTCTTGCCTTAAACT

T

TTCTCACCACACCCACCTTCCCACATGCATGATATCCAAGGTGACAGACCTGGATTAGA
ATCCACTCTCAAGCTTCTCATGCAGTGCGTATTGTATTTCTGCATAAGAAAGGGCTGCC
TCTAGAACACAGTAAGTGATTTGCCAGTAGTGACATTGCCTACATATAGCCAAGTGT
ATAGTATACCAACTTAGTATATTTTCAAGGAGAGCTAAACCACCTTTTGAATGNTTG

G

TTTCTCACTGTTATCTTCTTCTCTATAATTAATTTATTTTAACTACAAATTGACATAG
GGCTAAAAGCTTCAATATTTTACAAAATTAATTAATGNAATTGGTCCCAATTATTA
GAACTTTTTTTCATTT

Sequence 613

AGGAAGNCCACTTTTGANGAGGCCATTNAAAANCNAACGGNNATGANCCCCCACANNNC
ACTCNGAGGGGGAGGTANGAGNANNNCACNGGGGGCCCCGNCNGGGGAAAGGAAAGGCN
AACNCCACGNCNGGGGCCAANGGCCNCGCNGGGNANNNACNNNACGAGAGGCCACCNN
AACCAAAGAGCGANANGCCCCGGGGGGNCCAAGAAGGGCNGCACACAGNACCTGCCCGGG
CGGGCCGCNCAAGAACNAAGGGGGAACCCCCGGGCCNGGCANGGGAANNCGAAAAAAC
AAGGCCNNAACCGAAAACCCGGGNCGGACCCCCGGAGGGGGGGGGGGCCCCGGGGGAACC
CCCAAGCCNNNNNGGGNCCCCNNNAANGGGAAGGGGGGAAAAAANAGGNNCCGCC
CANGGGGCGGNAAAAACAAAGGGGGGNAAAAAANGGCCCGGGGANACCCCCGGGGGGGG
GAAAAAANAGGGGGNAAAAANCCCGNNNCAANAAAAANCCCCACCCAAACCANNAACC
GNAGNCCCAGGGGNGGCAAAAAAAAAAAGGGGGGAAAAAAGNCCCCGGGGGGGGG

Sequence 614

CCAGAGNTAACGAAACATTCTTTATAAAGGTTTGAACCCNCNGTTTNAAGCCAANACCA
TAATTTAATTACAAANGGATAAATATGGTAACGGGTATTTACAGAAGGAAGGGNGTTATT
ACGGAAGAAAGCTAACGGCACGACGTTTATTTTCCCCACAATCTTTCATACAGGAATA
ACAAANTGAACCTGCAAAAGCACTAAACATCAGATGTAAACCCAGCTAACAGAAAAATA
CATTCACAAGCGTTGNTGGTGGGGGTGNGNATNGTGTGNGCTAAGGGNCAATGGGCNGAA
GAAACAGAAGGGAGACTNTGGCACGGCTCAATTCTTCCAGNCNANAGNTACATGGAAGG
TTACAANCAGGGTGCCCCANAAAAAAGGNACACCACTANTCAATACCCNCCAATACAAAA
AGAAAACCAATNTTCTCCNCCANTACCTAAAAAAGGAAACCCGGGGTAAAC

Sequence 615

CGGTGGCGGCCGCCCGGNCAGGTACTTTNTTTTTTTTTTTTTTTTAAATTTTCATGTAT
T

Table 1

NGCCTTNATCAAACATAAGCTGNGGAGTGGCCAATATACTCCATTGNGATTATACACTG
ATTTCCATCACCTGCCTTTTTACTATCAAACCTTATTAGA

Sequence 616

CGGCCGAGGTACTGTGCCCTCTTTCTTACTAGGTGACCGAGAGTGGTTTTGACTCCTGTG
GGTGCTTGAAGTCATTCTCAGGGGTCTCTATGACCTTTTCCCTCCTGCAGTTCACCT

AG

TTTCTTCTATTTTCATCATCCCGCACTGCTCTTAGCATCGAAGTCACTGTCTGCATCTGG

G

TNTCTACTTTTACATCAAGTTTGAAGAATGCATTTCTCTTGNNGGTATTCTGTTTTTTGAA

CTTACTTCATTGGAGAAGCCCCCTTGATTTTTCTCTTTATACCAGATCTGGCTTCACG

A

AAGCTGCATTTAGGTACCTGCCCGGGCCGNGCG

Sequence 617

GTGGACGAGGGCAACCCNACTAGCCTAAAAGCCCGTGACACTTGACAGAGGTGCTTGCCA

CGCTTGCACCCGTCCGAAAGAAAAACGCGGGCTAAAAGCGCGAGTCTGGTGACTTTGGCA

CCCAACCGTGCAANTTGATGGTACCCCAAGCCCAAGCGACTGGNAAGATGTCTTTGGNAA

AAATGAACCGTGGAANCTTGGCTTGGAGCCCGANGTTCCGCGTGCCGGCCAATTCAAGCA

AGGTGGCAACCGGGACTTGGGCCGTTCAANACCCGTGGACCGTTCAANATTCCCAACCA

CCANTAGCACTNAGTATTTGGCCATTGGCANAAAAAGGGGAATTGGAAAAACAAACGNT

NCCCCGNNTTGCTTTGGNGGGNGCAAAATCCCNCGNGCAAGGTGGGCCCTNTAACTAT

NTTTTAANAAAAAAA

Sequence 618

CCGCGGTGGCGGCCGAGGTACTGGGACAGTTGGGTGCGTTATGGATACATAACCTGAGGA

GCCCCGGGGGAAGCTGGCCTTGGGTGTTTTACCTCAATCATATATCCACACAAGTGCTTCT

CTTGACATTTCTCGAAATGGGAGAAGAATAAAATGTTTATCCTCCACAACCTGCCT

GGAGAACCTCNGCCAGCAGAAATCTACCACTGTGGAAGACAAATAAAATATAGCAAAGAC

AAGATGTGGTATTTGGCAAAATGATACGAGGAATGTCTATTGACCAGGCCTTGGCTCAG

TTGGAATTCATGACAAAAAGGGGCCAAAATAATTAAAGAGGTTCTTTTAGAAGCACAA

GATATGGCAGTGAGAGACCATAACGTGGAATTCAGGTCCAATTATATATAGCTTGAGTC

CACCTCGGGACCGAGGCCAGTGCCTGAAACGCATTCCGCTCCATGGCAGAGGTGCGCTTG

GGGATCATGGAGAAGGTTTATTGGCATTATTTTGTAAGTTGGTGGGAAGGGCCCCCAC

CTTCACCTGAGCCACAAAAGACGGCAGTTTGCCCATGCCAAAGAGTATNTTCAGCAGCT

TCGCAGCCGACCATCGGTACACTNTTATGATGAGGGAGAATTNAAGACCTCCACAGNG

NATTATATTTTGGCATTATTTTCTAAAAATAAACCAAAATTTGGAAGCCAAAAAAA

AAAAAAA

Sequence 619

TGGCGGCCCGAGGTACCTACTATGTGTACGCCATGGGGGGATACAAAGATCTATAAGGCA

CAAGACCCTCAGTCTTGTAGTCGCCTGACAGCCAGCCAGCTACAACATAATGTGGAAAGG

ACAATGGTGGGAAATGCACTCAGGTCTTCTAATGCACAGAGTATGCTCAGGCTGTGACA

TCNGAAGAAAACAGATATTTACCTAACACGGACTTGGAGGACCTTCAAAAAACAGTGAT

GGGAGGAAATCCAGTTTTAAAAGTCTTGATTTAAAAAAAAGAAAACACTTTCTGTGGATA

AAGATAGGCTGCAGGAAATGTAACCTATGAAATTTTCTCAAATTAGCTTTCAACACACA

CAAAAAATTGCATTGTGTTGAGGAGCAGAATGTAACCTATATTAAGAATAAACTACTA

T

TTAGTATCTGAGTGGAAGTACCTGCCCGGGCGGNGCGCTCTAGAAGTGTGGGATCCCC

Sequence 620

GCCGCCGGGCAGGTACATTCTAATTTTTATGAGACATAGATATGTATTTATAAAAAAGATA

GATGGAAAAGAGAAGAAATTAACCTAATTCTAAGAGCCAAATTTACTCAGAAGGTTTAGAA

ACACCAAAATTAACAGCCAGTTTTCTTGATTTTCTTCTTGAAGAAGAGATTGGTGTTC

T

Table 1

ATGGTGAGATATACTATGGCCTTGAGAGGCAGTTTCAACTTGAAAAGAAGATGCAGGTTG
AGCAATCGGAGAGGACTTCAAAGAAGCTGATGAGCTCTCCCGTGGACTTACTTTGACAAT
GTTGGAAGAATCTGGCTGGCTAGTCTGAACTGGAGTGGCTTGAGAACTCTGGGCTTCCTT
ATTCTCAAAGTTCTTTTTGGTTTGAACCCCTTTTTTTAGTAACCTGCAGAGGTATAAAC
T

GATTGTGCACACCCCTGGTATTCCCCAGCCATGGGCATGGTCCCAGAATATAAAGTAT
GATGGAAGGGCTTCCAGG

Sequence 621

GGTGGCGGCCGAGGTTAAGGACGCCTGCCCATGACAGAGCCTCAGGAAATCGCGATGACA
GTTTACAGCAGGAAAATCCGTGGAGACAGCAGATCCCGAGAAGCGGCGATGTTTGCGTAG
AACCTGTACCTGCCCCG

Sequence 622

CCCGCGGTGGCGGCCGAGGTACATTTATTTAACATAAAAGGACAATAAGTTTACTTTGTA
TCTGAACTCAAACAAAGTAGTTGTATATTTTAACTTCAAATTTGGGATTTCCCAATG
T

GACACATCATGAATGCAAACCCCTCCAGCCCATCAGACGCCAGGCTGCCTACTGGTAATC
TGTGTATAGTATATAACATGTAAAAATAGGTTGTATTTTACTCTATGTATGATGCTAAT
CAATGAACACTTTATTTATTTTACAGAGAAAACCTTATCTGTGAACTTTACTATATATCTG
NTATTTTACCTTTATTTTTTTTTTAAATAAAAAAGGGGTTT

Sequence 623

CCGCGGTGGCGGCCGCCCCGGGCAGGTACAGCCATTGCTCTTTGAGTTTGGTCTGGCTAGC
AAAAAGCTGGCTGTGTTATGTAAATAAAGCCCTATAGTAATTAAATTTAAAAAAGTT
TTTTAAGCTGGCTGTTTTCTACCACTTCAGAGTCCTTGACCCCGTAATTTAGGGTCC
CC

TTCAGATTTGCAGACAGAAACAAACAACAAACAGTTAAGCAAACTAACAAATGGTCACA
CAAATTATACAATTTCTGAGTGCTCTAAGTGCAATTGGAAGAAAGCTGAACTCCATAAAA
ACATCACCTGCCTTCCATCATCATGAAAGCAGGAAAACCTGCCTTCTTGTGGGAGCAAG
TAAACTCCAAAAAAGAGGTGTTGTACCT

Sequence 624

CCGCGGTGGCGGCCGAGGTACGGCGGGGAGCCGCTGGATACCGCAGCTAGGAATAATNG
GAATANGGACCGCGGTTCTATTTTGTGTTTTCGGAAGTGAAGGCCATGATTAAGAGGGA

Sequence 625

CTCACCGCGGTGGCGGCCGCCCCGGGCAGGTACAACTTTGATCTTCTTTGAAATGTGGTT
GTCCACTNGCTTTTCTGTTTCTGTACAGTAGCTATAAACAGCTGTTTAAGGATATCCT
T

ATCTAAATTTCTGCCAATGAGGACCAATCGATTTGTTCTCTCAGTGTCATCCTTCCAGC
T

CACTGGAGTCTCCTCNATCATAGAGCTCATCCCGGTACCTCGGC

Sequence 626

NCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACGCGGGGATGAGTCCTAGGAGGCGCTGG
CTCTTTGGCGGCTCGGAGGAGCGGCTGCTGCTGCTGCTGCTGCTGGTGGCCCCCTTG
CAGATGTATTGCTGTCTTGAATATTAGCCCATTTGAAAACGCCTGGGAAGTTCAGCCAT
CAGTATGTCAGTACCTCGGC

Sequence 627

CCCGCGGTGGCGGCCGCCCCGGGCAGGTACTTTTTCTTCCAGAAAAATTCCTTGGAGGAA
AAATGTCCAAGATAAGATGAATCACTTAATACCGTATCTTCTAAATTTGAAATATAATTC
TGTTTGACCTGTTTTAAATGAACCAACCAATCATACTTTTTCTTGAATTTAGCAA
CCTAGAAACACACATTTCTTGAATTTAGGTGATACCTAAATCCTTCTTATGTTTCTAAA
TTTTGNGATTCTATAAACACATCATCAATAAAATAGNNGGCAAAAAAAAAAANNAAAA

Table 1

NNNNGGGTNCCTCCCTGATAAAGGGGGAATTCNTGCCCGTCCACGGGGGGTGNCCCT
GGAAAAANTTTGTTTANACCCCGGGNTCCCTTNTTTTTTAAAAAAGGGGGGGCA
ACCCTTTTTTTTAAANGGGGGNNTNNCCCCCGGGGGGGGGGANTTNCCTGGG
GGGNTTNTTTTTTTTTTNNAAAAAAGGGGGGGGGNCCCCC

Sequence 628

GGNCGCCGGCAGGTACGCGNGGAAGACGGAGGCGGGTCTACAAGAGACGTAGGCTGTC
AGGGAAGTGTTTATTCGCGTCCGCTTCTGTTCTCCGCGCCCTGTGCTGCTCCGACTC
ACATACTCGTCCAGAACCGGCTCAGCCTCTCCGCGCAGAAGTGCCGGAGCCATGGCGGT
ACCTNGGCCGNTCTAAACTAAGTGGATTCCCCGGGCTGGAAGGAATNCGNATTAAAG
CNTATNGATAC

Sequence 629

CCGCGGTGGCGGCCCGAGGTACAGACGACGTCACCGTATATCTTCTTTTCGGCCAGTGGA
GGATATCACCGAAGAGGACTTAGAAAATGTTGCCATAACTGTTGAGATAAAATCTATGA
TAAAGTTCTGGGTAAACACGTGCCATCAGTGTGACAAAAGACCATCGACACCAAGACAGT
GTGTCGGAACCAAGTTGCTGTGGTGTGCGAGGACAGTTCTGTGGACCATGCCTGCGGAACC
GCTATGGGGAGGATGTCAGATCGGCATTGCTGGACCCGGATTGGGTGTGTCCCCCTGTG
GTGGGATCTGCAATTGCAGCTACTGTCGGAAGC

Sequence 630

CGCGGTGGCGGCCCGCCCGGGCAGGTACATAGTGTGCGGAACTCAAATCGGCATTAGAT
AGATCCAGTGGTTAAACGGCACGTTTTGCTTATAAAAAAGTGCAAAAAAGATGTGGT
TTACAAAGTTAAAGCTACAGAATCCCTTTTTGCTGTAATTGCACAGTTTTAAAGCCTCT
G

GCAGAGCAGATTGTTTTAAACTTTGTTTTCTTAAAGCTTACAGTGTGGCTAATT
C

TCCTCCCCTTTTTACAAGACGGGGGCCGGAGGGTGGACACTGGTGGCAGGTTAAGGGATA
CTGTCACTTTAAGAAGCCTGCAGATTGAAGTGTAACATGGAGAAATTAGGGGCTGATT
TTAAACTGTGTGAGATATTAACAGCCCGCCCTGTTATAAAATCAGGAAATCCAAACAG
CGATTTACACCGATTAAACCCCCCTTTATATATTTTTTACAAAAATACACTGAGAAAAATA
ATCAAACGTTTTCATCTCTCTTGTCTTTTTTTGTTTTTAAAGTGCAAAAGTCTACAT
TTAAATATAAAAAATTAAAGTTAAACTCTAGCCCTTCAGTGAAGGAGACGTAAATGG
CGTGGGTAAACAACAACTACCAAAAAAAGAAAAAAGAAAAAAGGAAAAGGAAGG
AATAAGAAATAAAGGAAGTAAAAAGAAAGGAAAGAAAAAAGG

Sequence 631

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATCAGCTTGCCTCAAGTCTGGAAAGAAA
TTGGCTTGGGCTCATCAAGTTGAAGGGACCACCAAAAGAGCTAAGATTGCTTGTAACT
CATGTGGCCCTAGGATGCACCGACTGGTAGTGATGAGCCAGGTTTACAAGCAGACACTG
GCTAAGAGCTCAGACACTCTGGCGGGGACATGTAAAGATTCATCGTTGCAACGAATCT
TTTATATATCTGCTCTCTCCCTTACGATCTGTGACAATTGAGAAGTGCAAGGAATAGCAT
C

TTTGTCTTGGGCCCTGTAGGGACTACACTTCACCTCCACAGTTGTGACAATGTTAAAGTC
ATTGCTGTTTGCCATCGTTTGCCATCTCTTACAACAGGTTGCATCTT

Sequence 632

AGGTACCACACTCAGGGCAGTTTCCAGCTCCTCTCACAACAGTAAATCTACACAACCTT
CACAGAGAGTGTGTCCGCACACATTCAACATCAGCTTCAAGGAGGGGTTCCGATTTTGG
TGGTCTTACACCGAGGGCAACCCTGATCGTCCATGGCGGTTTCCCTCCTACAGACTCTCG
CAGGCGCCTGTTTCAAGCCAGAGCCACCTACAAGCCCCCTCCCCGCGTACCACCACTGT
CCCAAATTACCTCTTCATTACCCAAATCAAAGAATCTTCTGTTTTCCCAATCCTCAA
A

GGAATGAAGAAAAACCAAGAGCAAACCTCAAAAGATGATTTTTACCATAAACCTCAAATG
TGGCTTAAACAGTACCTGCCCGGGCGG

Table 1

Sequence 633

GCCCATGNTGTTTGTGTTTGTGCTTGAAGACCAAGACGGAGTTGGGCCTCTTGATTCCC
AGTGGCTGCAAGAACTGGGATTCCCTCTCCTTCTCTCTTCCCCTCTCCCCCGCGTACC
TGCCCCGGGCT

Sequence 634

GAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTAAGTGAACCACTTCCAGAGTCTAAAG
CAGCTCAGATGTTATCTCTGGGGGAATTAGTGTCCCTCATTTAGCAACCTCCATACCA
CAAGGTCTCTGTCTGTAGTACTGGGATTATCCAGATACACTATCAATGATACAAATTC
A
TAGGAGTATTAATGCATTTCTTTAAACACAACCTTGATTAAGAAGCAAATATGTTAAGCA
G
TTTTCTTTTTCTGCTGCTAAATTACAGTTAGACACTTCAGTATCTTCTCTTTACATGTGT
ATATAAATTAGTAAGAACCCTGCATCCAAAGCAATGTAGTGTGTGTATGTATCTATATAT
A
TTTATTCTAACTCAGCACTTCAGAAGCCTTTTTGAGTTACAACAATATTTAGTTTGCCT
CATCTGTAGAGGTAAAATTTCTATATTACCAAGCTCCAGAGGAATATGATATTTTACAGG
CACAATTTCTGGCTGTAGTCCCTGGGGCATTTCAATTTGCTGGCCTCCA

Sequence 635

NCTCCCGCGGTGGCGGCCGAGGTACAGATGATGAAGCTTCCAGAGCTTATCTGTCTCTTA
GACAGAACTCACATAAACACACAAAATACAAGAGGTTATTTTCAAGACACACACTTGCAAG
TAATCTTTCTATAGAAATGGCCACAGCATTATAATATTCAAAATATGGAAGATTGCAGT
C
TGAGGATTTTTANGAAAAAAAATCAAAGGACTTGCCAAAAGGATAACTACATAACAGAT
ATGACAATCTACAGGACAAAAAGACAACATGTCACCAAATATTGTTACATAACAGCGTT
AATGGAAAACAGTAAAACACCTTTTAGCAGTGTGCATGTTAAGTCTTTTAGTAAGATTA
T
CTGTAATGAGGTTTGAAAGTAAATCACTTAGTAGACAAAGTAAACCACCACAGAACCAGG
AATAGCACCCATCACTGCTGCTTTGTCACTCCAGAAAAGCTGAAAGTCAACCCGAACAATG
AAAAAAGTCAAAGAAGCATTTCCTTTGAATTCAGTCTTAAAAATATGAATGCCTTATA
ATTAATTTCAAAATAAGTATCTTACAAGTGTTCATGAAACATTGGTTTT

Sequence 636

GTGGCGGNCGAGGTCTAAAGGGCAAGGTTCACTACTACAAAAGGAAGTTGTCTAAAAGC
AAGAATTCAATTAACNGCTGGGTAAGAAAAGTCAAAACACTAATGAGTTGTCCATGAAGC
CAACTGCTAAGAACGCGCTCAACTATACCGCCGACATTGAAGACACTACGCACGAAGCCT
TACTTGGCGAGTCTGAATTTCTATTAACTAAGGGCAGAGTGAGGGAGAACAAAGAGCCTA
CTTCCGTAACATTTTAGTATCCAGATAGTACCTGCCCGGGCCGGCGCTCTAGAACCTAG
TGGGATCCCCCGGGCTGCAGGGAATTTCTNTATACAAAGCNTTATCGATACCCGTCCGAC
CTTNGAGGGGGGGGGCCCGGTACCCAGCTTTTTGTTCCCTNTAAGNGAGGGGTAA
ATNTGCCGCCGCTTGGGCNTAATCATTGGGNCATAGGCTTGTNTCCCTGNGGTGAAAAA
TTGNTAATNCCGCTTCACAANTTTCACCACCAACCAATACGGAAGNCCGGGAAGCAA
TAAAAGGTNNTAAAAGGCCTTGGG

Sequence 637

AGCTCCCCGCGGTGGCGGCCGAGGTACAGGAAAGGGAAGCACAGTTTGAACAACAGCAG
AGATATATGCCTATCGAGAAGAACAGGATTTTGAATTGAGATAGTGAAGTGAAAGCAA
TTGGAAGACAAAGGTTCAAAGTCCTTGAGCTAAGAACACAGTCAGATGGAATCCAGCAAG
CTAAAGTGCAAATTTCCCGAATGTGTGTGCTTCAACCATGTCTGCAGTTCAATTA
G
AATCCCTCAATAAGTGCCAGATATTTCTTCAAACCTGTCTCAAGAGAAGACCAATGTT
CATATAAATGGTGGCAGAAATACCAGAAGAGAAAAGTTTCATTGTGCAAATCTAACTTCAT
GGCCTCGCTGGGCTGTATTCCTTATATGATGCTGAGACCTTAATGGACAGAATCAAGAA

Table 1

CAGCTACGTGAATGGGGATGAAAATCTAAAAGATGATTCTCTTCCTTCAAATCCAATAGA
TTTTCTTACCAGAGTAGCTGGCTTGNCTTCTAATGATGATGNATTGAGAATTCAGCT

T
CTTT

Sequence 638

CGGTGGCGGCCCGCCCGGGCAGGTACGCGGGAGAAAACCTAACCTTCATTTACTGTGAACA
TCTTCTGACTGTGGCTTCCAGATGCTAGTTACAGAACACCACACAGCAAGACCAAGCT
TATGCTGAGTTGACGGAACAATGAGTAAACATAAGGATATTACTGTGACTTTGAAATTTCT
GAAATTGTTCTTTCTTAACTTTGCATTAAATCACATTTATTTATAAAATAATGAAAA
AA

Sequence 639

CCCCGCGGTGGCGGCCCGCCCGCNCNGGTACATGGCCCTTAATNCCATNAGATTTGTAGA
TCTTAACCACGGCAGGTCACCGAGGCCTCGGAANTCCCTTTNAGCTCCAGCTTTACCCAC
ATCAGCTGCTAGACGGGTACCT

Sequence 640

AGACGATTGAGCTNCCGCGGTGGCGGCCCGCCCGGGCAGGACGCGGGGGCTGTCTCACC GG
TGAGACCTGGAAGCGGGCAGTCTCGTGCTGTGTGCGGACCTGCAGTCCCTGGCCTTCCGC
CACCATGGAGTACCT

Sequence 641

CCCCGCGGTGGCGGCCCGCCCGGGCAGGACGCGGGTCTTCAGAAACCAGGCTGCTTTCAGG
AACATTGCTGTGGATTCCAGCTTTCAGACAACACATGACTAAGACAGAATGAGACCACT
CTAGTTGCCTCATGGGAAACTCGGAAAAGACTGCAAAAACAACATTGTTTCTCCCTTTG
GAATTCTGGAGTTATAAGGCAGAGGTCCCCCATCTTCCCGAACTGGCCTATTCCGCTAGA
AGCAAGATGGCTGAACTCAATACTCATGTGAATGTCAAGGAAAAGATCTATGCAGTTAGA
TCAGTTGTTCCCAACAAAAGCAATAATGAAATAGTCCTGGTGCTCCAACAGTTTTGATT
T
TAATGTGGATAAAGCCGTGCAAGCCTTTGTGGATGGCAGTGCAATTCAAGTTCTAAAAGA
A

Sequence 642

TCCCGCGGTGGCGGCCGAGGTACTTGGAGAATATTTCCACAATAGCCGATGACTTGTTCT
TGTTGACAAGAGAAAGTTCTTTGGCTGTTACCCTCAATGATAGTGAGGTCCATTGCCGTC
TATTAATGGAGATGATTCCATCTTGTCTACAGACACTGAAATACCTGGCTAAAAGCCGC
CTTCTCTGCGCTGCTACCAGCCCTGTCACAGGTCCCGGCGCTTACCTCCCCGCGTAC
CTGCCC
G

Sequence 643

CCCCGCGGTGGCGGCCGAGGNACNAGAAGCTCACTGGCTGTGCTAAACCAAATGAATGGAA
AGCGCCAAAAGTGATTTTATACCAAGGGNCCATNCATACAAATAAACAAAATCCTATCCT
CTTCTTCTATATNNTNTTTCTTACATTTCTTATACAAATAACAGAATGCTTCATTTAT
TCACTTCAATAGGACAAAGTCCTTAAAGAAAGACTGAAAAGAGCTGATAATCAAAATCCC
AAATTTTATGCTTATTTTGGGTTAGNCGCTATCAATTTTCTGACATATTAACATAGGCA
GGAAACATTCTCAGTAAATTGAGCATTGAGTCTACAAATGTCTTGAAGCACTCTGGCA
AGTTACATGTATCCCATGTTGCTTTTGGNTTCCCATCTCTTCTTTGCTTCAAACCCCCA
T

GCAAGNTTTTTNTTTTTTCGGGCAGNCTGTGAATTTTCAACCTCCTTTTT

Sequence 644

GAGTCCCGCGGTGGCGGCCGAGGTACACCCTCTGGCCTCTCCCAAGCAAGCAGTGAGGT
GTGCATTGTTAGAGGTGCACCGGGAAGGGAGCTTGGTTTCGGACCCCAGGACATCCTGTC
CGCAAGCAGCTGCTACTTCTTGGGCTTCTCTAGAATATTGAGGAATTTCCCCCGTGTCAT
CTCTCTGGACTCATCCAGCCCCAGCTGATAGGCTAGGTTCTGTAGGCCTCGAACCTTCTC

Table 1

CATCAAATTAGCCGTGGTGAGACTCCCCAGTTCTTTCAACATGTCGATGTCATCACGTTT
TATCTCAGCCATCCATTTGGGTGGAGAACTAGTAATAGGACTTTTGAAGGAAGCTGCAAA
TTCAGCAACACCTGGTAATTGTTCTGGCCAAAGATCTGGTGAGGCACGGTCAAGTTTTTC
AAAACCTAGCAAAGATGCTTCCAGATCTGTCCCCGTCTGTGGGAGACGCCATCTTTCAAC
CCATGTCACGTCCCCGCGTACCTGCCCGGGCGGCCGCTCGAGCCAGGAACCGTAAAAAG
Sequence 645
CCGCGGTGGCCGGCCGCCCGGGCAGGTACTTCAGGGAGGCCTATATATTGGCACCCAAGG
AATGCCAGGACTGCCACCTGCTGCTCCAGCGTTAGCCTCACTCGTGTGCTTACTCACTTT
GACTGCCTTTTTGTCTATTTCTGGGAGGTTGGTAGAATGAAAGGGATGCTCCAAGGCAAG
CAGATGGCCTGTCCACCTCCTATATATTGACAGTGCCCAATGAGTGTAGAGTCTTGCTACA
AGAAACAAAGTCATGAGAAATGCCAGGCTTCTGTACACCCAAAGACTGCTGGCCCTCC
TACTCTATCCTTTAGACCAGAACTTTTCTTCTAAGCACTTGCCTACCGGAAGGTT
GA
GGAGTCTTGTTTTACCGTACC
T
Sequence 646
TCNCGCGGTGGCGGCCGAGGTACCGGCCAAGCCTGGTCCCCTTCTTGTGGGCACTGTGT
ATGGGCGGAGAAAAATCCANCTTGTCTTGCTGATGACGCAAAGGTCAATGTTGCTTCCGG
AGCCCAGGTTCACTGAAGATTGCCANNTGCCGATGGCTTCGCTCACCANGATTCTNNGCT
TNCTNCTCCTCATTGTCTGGCCTAACTTTATCTTCAAATACAGACCATTGCTTGCTC
A
ANNGAGACCAAGAAACCCATNNGGTGACCACTAAGGGCAACTTATCAGNTTGTATTNCAT
GAAGGGATAGGATGTCTTGTATTAGGNTGGAGAGTCCCAGGTAAATCTATGCTACTNCC
CCCCTTAANAACCTNAGNNTCTNGCAACCCAATTNTAAACNNTTGNATACNCTTGAAAA
AAGGCATTCTGNCTTTTNGCNAATCCGATTTGGCCTGTNCACAACTCTGGGGGAAAGAC
TGGTCCAGTTGNNAGAAGGGGAGTTGGGAGCNTCCAGGTTTGAAAAAGNAAA
Sequence 647
CTCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTGTAGACACGCC
TGGGTGACAGAGCGAGAGAGACTCTAAAAAANGAAAAAGAACTGTTGAGGGA
TACACAATATGTCAAATATTAAAGCTTTTTTTTAAATTGGGAACNCTCAGGATAATTGG
G
ATAATTAATTAGGCAATGATNCAAAGATGTTTTGTTTTAAATTCANAACCCNCCAAAG
G
TNNAACCNNTNGNAANAATTTTTTGGGTTCCCCCCCCCNNTTTTTTTTTNTNNCC
C
CNTNAAAAAAAGGGGGGCCNCCCCCNNTGGGAAANNTTTTTTTTTTNNNGCC
CCCCCNNTTTTTTTNCNGGGGGGTTTTTAANAAANGGGGGNAAAAAANGNGN
GTCCCCCCTCNNNNAAAAAAANGGGGGGGGGG
Sequence 648
TGGCGGCCGCCCGGGCAGGACTTTNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
NATTT
TTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCCNGGGGAANNCCCCNTNTNNGGNNTT
CCCCCNNGGCNCCNANANGTNAANCCNCCNANCCNNGGGGNNGGGNCNCCNCC
NNNGNGNNNAANNNGGNTNNGNGGGNGGGGNAAAAAAGGGGGGCCNANGGGGNC
NCCCCNTTNNCTGGGGGNNAAAAANGGNCNCCCCCCCCCGNNAATTTNGGGGNNNT
NAAAAANANGGGNCCCCCNGGGGGGGGNNNAATNTAANANAAANTTTNTNCC
CCCCCCCCCNGGGGGG
Sequence 649
TTGACTCCCGCGGTGGCGGCCGAGGTACACGATAGGAAGAATGTATATTCTGTGGTTGTT
GGTGGAGTGAATGTCTATGAGGCCCTGACTTCTTTCATTAGGAACACAGATTCAGAG

Table I

CTTCTGCTGTGCAGTAGGGGGCATCAATAGTTCATTTTCTTTTATTGTCTGCTACCAT
T
CCATTGTATGGATTCAACCTAGTCTGTTTATTCATTCTCCCAGGCTTCCACCAGGCC
AT
CTCTTTCAC TTCGGGGGCACCTTTCCCAGGGAGATGAAGAGACACAGGTTGGCCTCTGCT
GGGACTCCACATGTCTCCCCGCGTACCTGCCCG
Sequence 650
TTGACTCCCGCGGTGGCGGCCGAGGTACTGAGTGGGGAAGAAGGTAAGAAACACGTTGAT
TAACACCCTGTGTTCTGGCAGGTGGGATCAGCAATATGTAATCCAACCTCACCTCCATGTT
CAAGGATGTCCCTCTGACTGCAGAAGAGGTGGAATTTGTGGTGGAAAAAGCATTGAGCAT
GTTCTCCAAGATGAATCTTCAAGAAATACCACCTTTGGTCTATCAGCTTCTGGTCTCT
C
CTCCAAGGGAAGCAGAAAGAGTGT TTTTGAAGGAATCATAGCCTTCTTCAGTGCACTAGA
TAAGCAGCACAAATGAGGAACAGAGTGGTGACGAGCTATTGGATGTTGTCACTGTGCCATC
AGGTGAACTTCGTCATGTGGAAGGCACCATTATTCTACACATTGTGTTTGCCATCAAA
TT
GGACTATGAACTAGGCAGAGAACTCGTGAAACACTTAAAGGTAGGACAGCAAGGAGATT
CAATAATAACTTAAGTCCCTT
Sequence 651
GACTCCCGCGGTGGCGGCCGAGGTACTGCGTTATGCAGAGGTGTCCAGCCCCCTTCTCT
TCCTGGAAATTAACATTGGCTCCACCTTCCAGCAATTGCTGGACCAGGTCAACATCTTCG
TTTTGAACAGCTTTAATCAGCAAGTGATTGTCTTCCACTGCAGCCCTTCTACCGCTGGAG
GACGTGGGTCCCTCCTGGGGTTGTTATGATCCCTGCTCTCCATGACGGTAAATGCCACC
TGCTACCACTTTTAGCCTTTTCTTGAGAAAATGCAAATTTATCTCCTAGCACTTAATC
A
AAGAAGCTTTGAGTGTAATTTGGGATTCTCTGGCAACAGAGCAGCAGTATGAAGAAGGAA
CAATGTTCTCAGTCTTCTGACATTCCACCTGCTCAACTCAAGACGTCTCAATTATTCCT
T
TGGCAGCCGCAAAGCCTGGAAGACTGCTTGCAGCCCCGAGCAGTTTCTCTCTGCTGCCCCC
GCGTACCAGTGAGGAAGGA
Sequence 652
TTGAGCTCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGAGGGCCAGGTCTCAGGG
CTCCTGGAGCTGCAGGCGGCGGGAGGGGCTACAAATGCTTGA CTCACTAGTGATGCAGAACCT
TTCAGAGTTAGCTGGAAGCCACAGCCCTGCCTCTTGATGCAGCCTGGATCCAGCCGGTGT
GAAGAGGAGACCCCTTCCCTCTTGTTGGGGTTTGGATCCTGTGTTTCTAGCCTTTGCAAAA
CTCTACATCAGGGATATCCTGGACATGAAGGAGTCCCGCCAGGTGCCAGGTGTATTTTG
TACCT
Sequence 653
TCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTGTGAACTGAGGAATTATAGATAAACCTT
AGGTCAAATCATTTGCAATTGCATTGGTGGTATTGAAAAATGATGAGATTTCTCTGACA
GAGAGCTTTGTCTAGTTTTTGTCTTCTATAGGTCAAACTGGCAATATTCTCTTGTCT
G
CAAGATAAAGTGT TTTGTGCTTCTATCACCATATGCATGAACATGTAAGAATCAGATACAA
TTTCTGCTTCATCAGTTTACATGTTTATGTTGTCACTGAAAAAATGCATCTACTGTTT
A
TAGCTCCCAAGGAGACCCCAAATCCTTTTTTTCTTTTGTGATGGAGTCTTGCTCTTGTT
G
CCCAGGCTGGAGAGCAGTAGCGGATCTCAGCTCACTGCAACCCCCACCTCCTGGGTTCA
AGGTGATTCTCTGCCTCAGCCTCCCCAGTAGCTG
Sequence 654
GACTCCCGCGGTGGCGGCCGAGGTACCTGTTACCCTTTCAAAAGTAAGTTCTCCATCCC

Table 1

ATAAGCCATTTAAATTCATTAGAAAAATGTCCTTACCTCTTAAATGTGAATTCATCTG
TTAAGCTAGGGGTGACACACGTCATTGTGCTATATGTATGTGACTTCCCTCCCCCTGCCA
GAATACTCCTTGGTCAATTGTAGGTATTCTTTTGGTTTAAATTTTGCCAATGTAATTAA
AAAATGGTATGTCATTTTAAAATTTGTATTTCTTTTATTACAAATAAGATTGTTATGTC
AGTATTGTTATTGGCTTTTCGTATTCTCTTAACGTGAACCGTCTGTTTCATTGTTTTTAC
CTGTTTTCTGTTTAGCAAGTAAGTACCTGCCCGGGCCGGCCGCTCTAGAAGTGTGGGAT
CCCCCGGGCTGCAGGAAATTTGATATCAAAGCTTAATCGATACCCGTCGACCTCGAGGG
GGGGGCCCGTA

Sequence 655

TNCCGCGGTGGCGCCGAGGTACGCGGGGAAGTCGGCCATGGACTGGAAAGAAGTTCTT
CGTCGGCGCCTAGCGACGCCCAACACCTGTCCAAACAAAAAAGTGAACAAGAATTA
AAAGATGAAGAAATGGATTTATTTACAAATATTACTCCGAATGGAAAGGAGGTAGAAAA
AACACAAATGAATTCTATAAGACCATTTCCCGGTTTTATTATAGGCTGCCTGCTGAAGAT
GAAGTCTTACTACAGAAATTAAGAGAGGAATCAAGAGCTGTCTTTCTACAAAGAAAAAGC
AGAGAAGTGTAGATAATGAAGAATTACAGAAGTATGGTTTTGCTGGACAAACACCAG
ACACCACCTATGATTGGAGANGGAAGCCGATGATCAATTACCAAAA

Sequence 656

CGGTGGCGGCGCCCGCCTGGTACGCCCAAGGCATTTAATGCCACAGTAACAGGGCTGT
TTGACAGTGGCAGAAGAGGACGGGACTAAAGTTACTTTGTGCTGAGAGGGGGAAAGAAGC
ACAAAGTTTGGTCTGTTGCATAATTGAATTTTAACTCTTATCCACAACAACTTTT
TTCGTGTCCTGCTGTGTAAGACATCAGATATATTACAGATTTTCAAACAGGTGAGCAT
NCTTTTACGAGCTGGGCAGGTGGGGAGTGGCGTGGTTTTG

Sequence 657

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTCCAATGAAGAATTTCTTCATTCTGA
TCTCCTAGAAGACAGCAAATACCGAAAAATCTACTCCTTACTCTTAAGCCTCGAA

Sequence 658

CACGGGTGGCGGCCGAGTACCTTGTGGGCATTAGGTCANTNTTGTATACACTTTCACAA
AAGATTTTATCTTTGATCTCTTGGCGATCTTCTTGGCCATGGCAGCTGTCACTTTG
C
GGGGGTAGCGGTCAATTCCAGCCACCANAGCATGGCTTGTAGGGGCNATCTGAGGTGCCA
TCATCAATGTTCTTAACGATNACAGCTTTGCGTCCGGAGTAGCGTCCAGCCAGGACAAGC
ACCACNCTTCCAGGTTTCATGAACCTGCCCATTTCGGCAGCAACCACCCCGGGGCNCTA
CAGCAAAAAAGGCCCCCGCTGTACTCTGCCCCGGGGCGGGNCCGCTTCTAAGAACTAG
GTGGGANTCCCCCGGGGCTGGCAAGGNAATTTCCGAATATTCAAAGCTTTATTNCGATA
ACCCGTCGGACCCTCGAAGGGGGGGGGCCCCGGGTACCCCAAGCTTTTTT

Sequence 659

CTCCCGCGGTGGCGGCCGCCGGGCTGGTACGCCCAAGGCATTTAATGCCACAGTAACA
GGGCTGTTTGACAGTGGCAGAAGAGGACGGGACTAAAGTTACTTTGTGCTGAGAGGGGGA
AAGAAGCACAAAGTTTGGTCTGTTGCGTAATTGAATTTTAACTCTTATCCACAACA
A
ACACTTTTTCTGTCTGCTGTGTCAAAGACATCAGATATATTACAGATTTTCAAACAG
G
TGAGCATCCTTTTACGAGCTGGGCAGGTGGGGAGTGGCGTGGTTTTGATGGAGTGAGGAG
ATTTGGTTGAATGAACGCTAAGATGGCCAGACNCACCTCTTNGATCTCAACTCTGCAGCC
TGGG

Sequence 660

CCGCGGTGGCGGCCGCCGGGCTGACTATGACCTGAAGAGGGCAGAGGCCATCACTGTT
GGTCCGGTCTCCACCTGGGGAACTGAGGTTGCACAGTGTCTCTGTGGTGACGAGCAGGG
CTTCATCCAGTGCCTCTGTCCCCACCGAGGGGACTATGGGAGACATGGAGGGTGTGTGAG
CAACAGGTGAGACTGGAGCCAGCTGAAAAGTGGGAGACCGACCCAGCCAACAACAATGT

Table 1

CGGTCTCTGTCTTGGCACCTGCAGGAAACAAGCTCCTACTTCCAGAAAAAGTGCTCCTGG
GACTCCAGGATACCAGGCATCTGGGTAAGCTACAATGCTTAACCACTTAACACAATCAGG
AAGCAACAGCCATGCATTGCGGGAAAGGAACCTTCAGTGTGTGTGGCTTAGTCTCCAGAC
CTAACTTTTCTTTGGTACCTCGGGCCGNTCTA
Sequence 661
TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGAGACGACTTTTTTCTCACCATGAA
TGTCACCCCAGAGGTCAAGAGTCGTGGGATGAAGTTTGCTGAGGAGCAGCTGCTAAAGCA
TGGATGGACTCAAGGCAAAGGCCT
Sequence 662
GAGCTCCCCGCGGTGGCGGCCGCCCGGGCNGGTACTTTTTTTTTTTTTTTTTTTTTT
TT
TTTTATTTTTATTT
TTT
TTTTTGGNCNANANAAACNAGTTTTTTTNAATTNATTNAGGGGGAANGNNGGGGNGNCTTTG
GANAANCCNCNNNGAGGGCTNTNGGGGNGTNTCCNGNGCCNNGGGGNNAGGGGTNGGGG
NCTNGGGGNGGGTTTTNAGGGGCCCNNGNCCCNNGGCCNCTNTAAACNAGGGGANCCCC
GGGCNGGNGGAATTCGATNTCAAGCTTNTNGANCCCNCCCCCCCCCGGG
Sequence 663
TCCCCGCGGTGGCGGCCGAGGTACTTGTGGAAGGTAGTGACCAGCACAGCCNGCGCCTGC
TCCAGAGAACTGCACATCATGGATCTGTGGCAGACCAGGTGGCAGAGACAGACCCAGGAA
GGAGAGCAAGGCCCCCGGTACCTGCCCC
Sequence 664
TNCGGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGCGGTATCTGTATCGGGCCNACTG
CTTNANGNGCNNNATTCCTTCCNNGNCCCCCNGGGGNCNCAANTAAGGGTTTNGG
ANCCNCTNTTTTTNATCNCGNCAGCANCTTAAATGCCTGGGAAGATGGTCGTGATCCT
TGGAGCCTCAAATNTACTTTGGATAATGTTTGCAGCTTCTCAAGCTTTTAAATCGAGA
C
CACCCCAGAATCTAGATATCTTGCTCAGATTGGTGACTCCGTCTCATTGACTTGCAGCAC
CACAGGCTGGGGAGTCCCCATTTTCTCTTTGGAGAACCAGATAGGATAGTCCACTTGN
ATGGGGAAAGGTGACCNAATGGAGGGGGACCATNTTACGCTTGACAAATGNATCCTTGG
TAGGTTTTTGGGGACCGAACCACTCTAACCTGGTGCCCAAGCAACCTTGGNGGAATCT
ANGGNAAATTG
Sequence 665
TCCCCGCGGTGGCGGCCGAGGCTAACAAGGAAAGCCCCCTGGAGCTCCTGTAATAAGAATG
TGGTTGGAAGATGCAAACGTGGATGATCATCACCTCCATTTTCTAGGTGTCATTACAG
TGATCATCATAGGCTTATGTCTTGCTGCAGTAACTTATGTTGATGAAGATGAAAATGAAA
TACTTGAATTATCATCAAACAAAACATTCTTCATCATGCTGAAGATTCCAGAGGAGTGTG
TTGCTGAAGAGGAATTGCCTCACCTGCTCACCGAAAGGCTCACAGATGTGTACCT
Sequence 666
GGGTGGCGGCCGCCCGGGCAGGTTTAACTCTCAGGTCTCCCTCATACACTTCTCAGCCTCA
GCACCTAACCTCACACAACACTCCAGTATTGATGCAGTCAATCTTGTATAACATTTTT
T
GAATGTCCAATGTGCAAAGCACGATGTTGGAAATTATACAGAGGTGAATAAGACAAAAAC
TCTTGCTCTCAAAGATGTCAGTCTTTTTCTTTGCAAGGATAACACATGTAGAGTAAAT
G
CATAAAGGGGACTAATTTTAAATGTACCT
Sequence 667
GGCCGAGGTACTGGAGAGTCGGCTTTGACCATGGCCTCAGCTCAGCTCCAGGTTTGGAGC
GGAATAAAACAGGAGCTAGCAAGATGTCTCATCTGAGCTTCCAGTGCCCAACTTATCTG
AGGCCTGGGGCTGAAGCCAGCGCTGACGGAT

Table 1

Sequence 668

GGGTGGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTCTGGTCGAAAATTT.
 TT
 GTTGAATTTTAAAGAAAAGAAAGGCAAAGTAGCACTCAGATGGCCTTTTTTGTAAAGT
 GAAGTCAACCTAATACTCTGGTGCTTACTTTGCAAATCTTTCCATAAGTCAAGTATTA
 G
 TGTTAACAATACACTTAAGAAGTAAGGATAAACCCATCAAGGTCCACAGCTAAATAACCA
 GCAGATCCCAGAACTTTATGTATTTGGGAAAAGTAAATATACAACAGACATATCCCT
 GCCCTGATTAAGAGGGTAGATAAAAACAAAACATAAAACAATTTTACTTGAGATAGTAAT
 AAGTTATTTGAAA

Sequence 669

GGATCAATAAAATCTGTGTGTACAGCGGCAGACTGAAGGACGGGTGCCTGTTTTCAGCC
 ATGAGGTAGTCCCTGACCATCTGAGAACCAAGCCTGACCCTGAAGTGGAAGAACAGGAGA
 AGCAACTGACGACAGATGCTGCCCCGATTGGTGAGATGCAGCCAGGTGGACTGAGTC
 ACTGCCTTGCTGCCCCATCCCCATCCCATCATGAGAAGCTAGGCATTACCATTCCTGTCT
 AGTAGGGATACATAGTTGGTTGCGCCTAAGTTGCTTCTGGCAGAACCCAAGGAATAAAT
 TCTCCATATCGTTTCTAGTTACCCTAATCTCTGCACAAATTTTGTGTGTACAGAAGC
 A

GATCCAGAGCTTGAATA

Sequence 670

TNCGGGTGGCGGCGCCCGGCAGGTACATTCTTTTTTTTTTTTAACTTTTAGGGT
 CT
 TGCCTATTTGCATCCTAAGGGCAAAGGCTTAGAGATATCAANGGGGCTAATNTTTTATN
 GNCAGACCATGGCGGATGTAAATTAGCTGCTTTGGTGTGGGCTGCAAAAATAACAGCTA
 CCATTGCAAAACGAAAATCTTTCATTGGCACCCCTTACTGGATGGCCCCAGAAGTTGCAA
 GCAGTAGAGAAGAATGGTGGCTACAACCAACTCTGTGATATCTGGGCAGTAGGAATAACA
 GCAATTGAACCTGGAGAACTTCAGCCACCTATGTTTTGATCTCCACCCAATGAGGGCTCT
 CTTCTTAATGGCAAAAAGTAATTTTCAGCCTCAAACTAAAGGGCAAAACAAAATGGGC
 ATCAACATTCATAATTTTGTCAAATAGCACTTATCNAAAAAAAAAAAAAAAAA

Sequence 671

GCTCCCGCGGTGGCGGCCGAGGTACGCGGGGTCTTCTCATGCTCCGTGATGCATGAGGCT
 CTGCACAACTACACGCAGAAGAGCCTCTCCCTGTCTCCGGTAAATGAGTGCGA

Sequence 672

AGCTCCCGCGGTGGCGGCCGAGGTACTCTTCTGCACTGTTCTTTCTTTCTAATAAACTT
 TCTTTTTCGAACCTATACTGTCTTCTGTAAATCTTCTTACTACCCTATGACCCGTGAG
 C

CAACCACTTCCGATGCCAGGGTTCTGACACCTCACCTGGCATAATATAAAGTGTTTT
 TT

TTTTATACCCTTCCAATTGGAAAGACTACAGAGGAATCTTGCACTGCATAGTTCAAATA
 AAAAGAGAAGAGTTATACCTGAAAAGCAAGAGAAAACAAGAAGGGTAAATTTTGAAC
 CAAGGCAAAATCATTTAAGAAGTGCTGGTATTTTCAAATTTCTGTGAGTTGTACATTT
 T

GTGATAAGTAAATGTTTAGGAATAAAGGATGGAQACATGCTTAITTTATTTAACTCCCC
 C

CNAAAAAA

Sequence 673

GGATTGAGGTCCCGCGGTGGCGGCCGTGCCTCTTAATCATGGCCTCAGTTCCGAAAACC
 AACAAAATACGAACCGCGGTCTTATCCATTATTCCTAGCTGCGGTATCCAGGCGGCTCG
 GGCTCTTTGAACACTCTAATTTTTCAAAGTAAACGCTTCGGGCGCEGCGGGACACTC
 AGCTCCGCGTACC
 T

Table 1

Sequence 674

AGCTCCCGCGGTGGCGGCCGAGGTACTGAAGCCCACCAGTGTCGGATGGAAGTCTGCAT
CTGAGGTTGCTCAGTGTCGGTCATTCATTTACACATTTTAACTTGCAATAAGAGCT
G
TTCTTTTCTGTGGCCTAGACTCTTTTCACTGATCTCAAAATAAACTGGTTTTTTTCAAAA
AAAAAAAAACAAAACAAAAAACAACAAAGCTGCATGTCTAAAATTACATGGAGTTAG
TGCTATTCTTTTCCCTTTTGCAGCAACTTACACAGCATTTTAAACACCTTTTTTTC
TAGTTTTTTGTTGCGTTTTGTTTTCCATCAGGAATTTGAGTTCTCTCTAACCCAGCTTA
CTGTGGGACATAGGAAACTCAGTAGAAATACCTTTGGTGATCTTGTGAGTTAAGTCT
GATCTTGATCTTAACTCA

Sequence 675

NATTGAGCTCCCGCGGTGGCGGCCGAGGTACGCGGGGCTGTAGTGGCTTCGTCTTCGGT
TTTTCTTCTTCGCTAACGCTCCCGGCTCTCGTCAGCCTCCCGC

Sequence 676

NCCGCGGTGGCGGCCGCGAGAGCATGATGACCACGCCATCGTCCAGTATGAGTGGGCA
CTGCTGCAGGGGACCCGTCAGTGGACATGAAGGTAACGCATGTTGTCACTGCTGGCAGC
TAGGTCTGCTGGGGCACACCGAGCTGTGAGGGAGGGAGGCCAGCATGCGGTGCTCTGCC
CG

Sequence 677

TCCGCGGTGGCGGCCGCGGGCAGGACGCGGGAAGGATTCTGTAAGTATGTAGCAGTG
TTTCTTAGGTAAGTCTCTTTTGTACTGAAAGGAAATGGTCTCTAAACACTGGTC
A

CTGTAGCAGGTAAACACTACTCTAACGTGGAGAAATGAGCTTCATGCTGAGGTAGTGGTT
GCCTTANAGCTGTTNTTNTNCTGNANAAANCNAAANGGGTTGNNTCCNGNTANNNTN
NAATTTNTNTTTGNCCTAAAGTTTTCTNTCCCNCGCCNANNTTCCCGGGGNAGN
TTTCCCTTTTCCCGGGTTTTNAAAAANNGGNGGNGGNTTAAACNNGNCCCCCGGGN
CCCCCCCANNTTTTTGNAAATTTCCCGGNCGGGCCGTTTTTNAANNAANANGGGGTCC
CCCCCCCCNCGGNNNAATTTNTTNAANACATTTTTTCCCCCCCCCNCCCCC
TCCNGGGGGGGGGGNGGCCCCCCCCCCCTN

Sequence 678

GCTCCCCGCGGTGGCGGCCGAGGTACTTGTGGCATGACGTGATGATCGAGTTCANGGCT
NTCTCCANCTNGGNCNACATGATGCCCACGGNCTNGCCCCACCAGGTCTTNTGAAAGACA
GNTGACANGAGACATCCNCGGTACCTGNCCG

Sequence 679

NCCGCGGTGGCGGCCGCGGGCAGGTACTGGTGTGTGATCGGAACGTGTCGATCCCCCT
CTTCTCATCACTGCTGCTCCAAGTATTACTCCGGAATGGTCTGAGGGGAAAA
CCAATGTGTTAGCGTGCTGCCACCTGCGCCTGAGCACAATCTGCAATCTGACC
TGCCCCCTCTGCACAGGAAACACCTTCCCTCCCAATTGATGGTTCAAACACTGCCACC
GCTGACTGCCCTGCATCTGTGGGTCTGTAGAACAGAAAGGCAGAACAACTTATTTTTAG
GATTTAACGACAACCGGTTGAAAAAACCGGTAGGGGTGTCNTGCTCACAGAGAATAAAG
ATTTGTAGAAAAGNGCTGAACTGCCAAGGAAGGCATTTCTGTGCCGTGCTGGAACCG
TGATCCTTACTACATCACTGAACGACACCAAAGCACCCCATGCACTTTTTGGGTCCAAC
CT

Sequence 680

NATTGAGCTCCCGCGGTGGCGGCCGAGGTACAAGGGGAGGTAATGATGGGAGCTCCACT
CCTTGGACCACAGCTGGTTCTGGACCGTATCCCATGAATCTGTTGAACGTAAGGAGG
AAGTCAAAAAGTTCTTATTTAGGGTTCTTTGAGATGTGGGGCACTTCCATTCCCA
CC
CGGCACAGGTAGGCACGGGCATACACCGACACTAGTGGGTCTCCGATCCCTCTGATCATG
CATGTCAACCGGGGACGGCACTCTGAAATTCCCGTTTTGGAGAGGAATTTGTACATTC

Table 1

AGGATGGATGCCTCCACGTAAATCTTGAATGAGTTCCTGATGGAGGCAATCTTGAAA
AACCAATTTAGGCATGTTTCCTTGCCGTGTCATTTGCATTCTCTGGAGAAAAGTGAT
CT
GGTAAGACGCTGCGGCTATCCACACACATGGAAAAGATGC
Sequence 681
GCGGCCGAGGTACCCTAATGTAGTAGTAAATTTAAGGCCTGTCGAGGAAATTTTAACT
TCCAACAGGTGACTATATCAGGAAGGAGAAAACCAAGTGCTTCCTGCTTACCTTCTGCT
GCTTTTGGGACTTTTTATGAAGCCTAGGTAGNCTNAGGACANGACCCTGAACCCATTTT
TCACTGGGAGAGGAAAACCACCAGGCTTCTCAGCTATTGGCTTGGCAACTCTTGGAGTTC
CTATGGCTTCCATCAGGGGCTCCAGGCCCTGATAAGTGGCCTCAGGCCAGGNAGGGAGGA
TTCGGNGTAGCCGGGATTGGGGAGCAGCTAGGTNCAGGGAAGGNTGGGAAAATAGGGGAC
CCANTCCCCAAAACCACCGTTTGGCCGCNATGGATGGAATTTGGAGGGGAACTGGGACC
GNTAAGTTTCTGGCATTGCCTGGCCGNTTGGGATGCCTTCTTGGGACTGGCTCCCAGG
GCCGAATNTTTTCAGGGTCTTGCAAGCCCGGCT
Sequence 682
TTGACTCNCCGCGGTGGCGGCCGAGGTACTCTCGTTTCAGCTGGGCTCTTATGGCCAACC
GCTCGGCTTGCGCCGCGGGTTTCCGGAGATATGTTGTATTGCGCTGGGTGAGGGTCT
CAGGCAGAGTGCGCAGGCTCGACGGCTTATCTTTGGGAACGACATCTTGGCGAACCAGG
GCACAATTGCGCCTGCGCGATTCTGAGGCCCTTGTCTCCCCGCGTACCTGCCCG
Sequence 683
GCGGTGGCGGCCGCCCGGGCCGGTACGCGGGATGGCACATGCAGCGCAAGTAGGGTCTAC
AAGGACGCTACTTCCCCTATCATAGAAGAGCTTATCACCTTTCATGATCACNGCCCTCAT
AATCATTTTCTTATCTGCTTCTAGTCTGTATGCCCTTTTCTAACACTCACAACAA
A
ACTAACTAATACTAACATCTCAGACGCTCAGGAAATAGAAACCCGNTTGGACTATCCTGG
CCGGCCTTATCCTAGGCCCTAATGGGCCTCCATCCTTACNNATTTTTTAAANAANANAAA
NGGGGGAANGGACCCNTCNTTTANAAAAAANNGGGGANCCTCCGGGNGGGGGGANTNTT
NGNGGGCCCTNGGGCNTTTTAAAAAANNGGGGANCCTCCGGGNGGGGGGANTNTT
TTAAAGNTTTTTTCCCCCCCCCCCCCGGGGGGGGGGGNCCCCCCCCNTTTTT
Sequence 684
CCGCGGTGGCGGCCGAGGTACCCCATGCAATATANTGGCTCTACAATCCTCAGCATGTTA
ATCGAAGCCTTGTTGAGCTTCACAAAGGTTCCATTGAAGATTTGACNGAAGGCGAAGAAG
CTGCAACACCTTTCGAACCTTTGGGCTCACTCCATTGATACCTCTGATTCTGATGACAAA
CGCCAATTTGGGTTCTGCAGGTACGAGGACATTTTGCCCCGCGGCTTGTGGGGTCTCCT
TTACCCATGTTGACAGATCCGCGTCCACCCGAGGGTATTGGAGGGTATTCTTGCCTGGTG
CGAGCTTTTCTCAGAGTCCCGCAGAGCGGCCGCTCTAGAAGTAG
Sequence 685
CGGTGGCGGCCGAGGACTTTTTTTTTTTTTTTTTTTTTTTTGGAGATGGAGGTTTCC
G
NTCTTGTGCCCAGGCTGGAGTGCAATAGAGCGATCCCAGNTCACTACAACCTNCGCCTN
CCAGGTTCAAGCAATTNTNCTGCCTCAGCTTCTGAGTAGCTGGGATTACAGGCATAAGC
AACCATGCCAGCTAATTTTGTATTTTAGNANGAGATGGGGGTTTTTCNATTNTNGGNAA
GGNNGGTTTTGAACNCCCCCNNGGGGNCNCCCCCTGGGCTCAAAAAAANGGGN
GGTTAANTANGNGGGGGGNGGNCNNATATTCCNCCCCTGTATAAAAAAANANCNC
CCCCNCCCGNGGTGTGGATATANATTTNTACATTNTATNTTTNTCCNCCCCC
NC
GGG
Sequence 686
CCGCGGTGGCGGCCGCCCGGGCAGGACTTTTTTTTTTTTTTTTTTTTGGTTTTT
T

Table 1

TTTAAACNGAAAT
TCTT
CANNC TTTATNAAAAAAGGNCNTAANGGGCCTNTTATTA AAAAANGNNTAAAAANCCCCAN
AAATTCNGGGCCCCNGGGCNGGGCAGGGNTGANANCCCTTAAAGGG
Sequence 687
GCCGAGGTGCGCGGGGGCTTACGATGGCNACAAGTATGGCGGCTGCTAGTGGTACGATTG
AAACGTGCTGAAGAGTATCGAAGAGCGGAAAGAACAGACCCGGAATGCCAGGGCCGAGGT
GTTGCGCCAGGCTAAAGCCAATTTTAAAAAGAAGAAAGGCGTAAAGAACTTAAGCGACT
TCGGGGTGAGGATACATGGATGCTACCTGATGTGAAT
Sequence 688
CTCCCCGCGGTGGCGGCCGAGGTACACTCGCCAGCGGTTTTGCCACAAGAGTATACCGGA
ACAAAGGAGACANGGCTCATTATAATCTGACGCGGCCACCCTCCTGCTGCGTTCCGTTT
CCATTGGCTGGGACGGGACCTCACCTTCTGATTTGTCCCGACTGGCTAGCACTTAGAAC
TTTTTAAAGAGGCAAA
Sequence 689
CTCCCCGCGGTGGCGGCCGCGCCGCGGCAGGTACAAACTGGGCACTGGATAGGTAGTTCCTTT
GGTGGTCAAGGTGGCTCTACCTGTCCTTGAGCTCTCGTGCTACTCGCTTGGTGATCCGTC
CACACATCAGGCCAATCAGGAACAATATACAGATGCTCCCACTGATCACAGAGAGAATGT
AGTTCTTAGATGGAGACGTCATTACTTGATGGCAAGATCAGAGAAGCCATCTGCTGGGG
CCACCTAGAATGACACAAGGCAATGTGATTCTCTGAGAGAGCACTGGGCTGGTGGCAGTG
CTAGGTCTAACTTATCCCTCTCAGTTCTAGTTTAAATTTATGCTTTTCTTTGGAGAG
G
GAGGGGCAGGAGATAAGAAAAATCAACACAGAGCTACAACCTCTTTTCTGGATCATAAA
ACTATACCCACGCTCTACTGCACCAAAATTAGGAA
Sequence 690
CCCGCGGTGGCGGCCGCGTTTGTTCCTTGCCGTCCTGAGCGATGGAGCCCGGGGGTGCCT
GGTATTGTCCGCTTCTCTCTCAGATGCTTGGCTTGTTCCTCAAGAGAACCTTTTCG
A
TATTCATTGCTCCATCGATTGGATCCAGTCCTTGTTTCAAGAAATTGTTTCAAGGCACTT
A
AGGCTGCCTGAAAGCCTTGAATCCTTGCTAAATATTCCAGTTGNTTTGAAGGTTGTACCT
Sequence 691
GCGGTGGCGGCCGAGGTACTACAGGAAGAACTAGAGGAAACGGGAATTTTCATCCATGTC
CTGTGTATCTGCTGGCAACAGGTCAGAACCGGCCAGTATGTTATTCCTGCAGGCTGCCT
AGGGTGCTCTCCTCAAACAGATCACCTGAGCCTCCTGCATCTATGAAAGTTATGACACAG
CAACCAGTTACTCAGAGTCTGATGAGAAAAACAGATTTTAGGTTTGGGAAATGGGATTAC
TGTAATTTACACATCCAAATGCAAACTGGAGCTCTGATTTGAATTCACCTGGGGGAAG
AACTTTGATGCTAACCACAAGGTACCCTGCCCCGGGCGGGCCGCTCTAGAACTAGGNGG
GATCCCCCGGGCTGCAAGGAATTCGATATCAAGCCTTATCGATACCCGTCCACCTCGA
GGGGGGGGGGCCCGGGTACCCCAACTTTT
Sequence 692
GAGTGACTCCCCGCGGTGGCGGCCGAGGTACACCAAATGTGACATCCTTTCCCAATATAG
ATTACTTCATACCACATTGTCAAGGAAAGGACTAGAAGAATTTTGTGACCCAAAAA
CTGGGGGCAAGAAAAAGTAAATCTGGAGCAGCATGGACCTGTCAGCAACTAAGGAACAA
AAGTAATGAAGATTTACACAACTTTGGTATGTCTTACTGAAAGAAAGAAACATGCTTCT
AACCCTAGAGCAGGAGGCCAAGCGGCAGAGATTGCCAATGCCAAGTCCAGAGCGGTTAGA
TAAGGTAGTAGATTCCATGGATGCATTAGATAAAGTTGTCCAGGAAAGAGAAGATGCCCT
TAAGGCTTCTTCAGACTGGTCAAGGAAAGAGCTAGACCTGGTGCTTGGAGAAGAGACATT
NTTNGGAAGAATCATTTTGGCCCAAGGTTCAAGCNNTGGGGTTATTCCTTTGGCCCCCT
TAAATTA AAAAGGATNCCCATT

Table 1

Sequence 693

TCCCGCGGTGGCGGCCGCCCGGGCNGGTACCTCAGGGACATTTAAGAGTTGGACGGTGCA
AATATATTCCAAAAGGGTGCAACATGACACAGTGTATCCCCCTGCTTCTGTTTTGTAT
A

Sequence 694

GGTCTCTGTTGGGGCTCCCCCTTCTGAACCTTTGGCCAAAGACAACAGGATATTCTTGGG
GGTTTTGTTGTTGTTTTGTTGGCATNNTTCTGTGCCTGTTGGTGATTCCAGCACAGN
CC
AGNGANCCGNGTACCTGCCC
G

Sequence 695

GTGACTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGTATAATGGAGGCTGACCAGAGC
AGTTTAGGAGATTGTAAAGGGAGGTTTTGTGAAGTTCTAAAAGGTTCTAGTTTGAAGGTC
GGCCTTGATAGATTAACGAAGGTTACCTAAATAGAATCTAAGTGGCATTTAAACAGTA
AAGTTGTAGAGAATAGTTTGAAGAAAAAAAAAAAAAAAAAAAAAAAAAGTACCT

Sequence 696

NCCGCGGTGGCGGGCGGCCGAGGTACAGCAGGGTGCCTCATGCAAGAGAGGACTGAGTGG
ATTTTCTTAGGGATATTTATGAACCTTAAAGCAGGAGCTTAAAGGGAATTTGGGCCATA
TTAACCACTTAGGTCATGATAATGATTACATTTTGGACATTTTGGTGCTTAATGTC
A
GCAAGGGTTGCACGATAAGTTTTGACATGCATGCATGGGAGACATGTAGAAATCTAGTT
ACTTACAAGTTTTTGGGAAGAAGCCTGGACCCAGATGCCAGCTTAAATAACAGGGGAG
TCTAATTACTTCTAAATTCCTCACATAAGGAGTTTTTGCCTCTGGATGGCCTGCTTGAT
G

GNCCTAGGGNGATCTTTGCCCTTTTATACTAANAAGCCCTTGCCCTGGAAAGGGNTNTT
TGGGCNNTNAAAAAATTGNGGGCCGGGGGAAANGGGGAAACCANTTTTGGGCCCCCNNT
NNNGAATTANAACCCCTTTTTTTTNGGNGGGAAAAATTTNCCCCCCCCCCCCGGGGGGC
CCCTNTTTTTTNGGGGGGNANAAANCCCCCCTCGGGGGGGGAAAAAAAAA

Sequence 697

CGCGGTGGCGGCCGCCCGGNCAGGACGCGGNGANGACAGCGNCAGGCGCTTGATTTCCCT
GAGTCCCGGTGCCTCANCTGCCAGNGCCACGTTCTGTAAGAAGGCAACAAGNTCTTCTC
CTCTACAGAAGGATTTTGCAAACANTTCGGCAAGNTCCAAATGATTCTGATCGCAAATAC
CTGGAAGATTGGGCAAGAGAAGAAATTCAGAAGAAACAAANGTGCCACCGAAGAGGATACA
ATCCGGATGATGATTACTCAAGGCAATATGCAGCTCAAGGAGTTAGAAAAACACTTGCT
TTAGCAAAATCTTAAGTATAGCATTATTCTGAAGGGA

Sequence 698

ANCCTACCGCGGTGGCGGCCGAGGTACGCAGNCCNCCTGTAGGGATCNGTNTTGTTCNT
GACNAGCCCTACGGTAATGCAGCCCGGAGCTTGTTTTCCGTAGCTGGGGACAATCTTCTG
TCCTTGCTGTTTCATGTCGTGGAAGAGAGGGGCAGAGTCTTGCTCTGTACCCAGGATGGA
GTGCAGCGGCGTGATCTCAGCTCATTGCAACCTCCACCTCCTGGGTGCAAGCGATTCTCC
TGCCTCAGCTTCCCAAGTAGCTGGGATTACAGGCGTGCAACCACTACATCCAGAGACTGGG
ACTACAGGCATGGATTTTCAAGTTTATAACATGGCAGAGTGAATTCTGGCAACACACTGA
GTGATGCTTGNCATGGCCACTATCAGGAATTTAAACAAGATT

Sequence 699

CGNGGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGTAGTGTCTTCTGATGTCTTTT
CTAACAAATCTTGCCTGCCAAAAGTCTCAAAAACATTCTCACGTTTCTAGATTTTAG
CTTAGCTTTTGTGTTTGGGACTATGATCCATATTTAGTGAATTTATTTTGGGGGGCA
GAGTCCATGTTGCCAAACTGGTCTGGAACCAACACACCCAGCTAATTTTGTGAATTGC
GGGTACCAGCACACCGGCGCCGCTGGAAGTGCCTTCTACGATCCAACGCATGCCTGG
AGTGGAGGACTAGATCATCAATTGAAATGCATGATTTGAACACTGATCAAGAAATCTT
GTTGGGACCATGATGCCCTATCAGATGTGTTGAATACTGTCCAGAAGTGAATATGATG

Table 1

GTCCTGG
Sequence 700
CGGCCGACTTGATGAGCGGAGAGACCTGCACCGGTGGCACCATCTTGTCCTGACCTCCG
CACCGGAAGCCCCCGCTACCT
Sequence 701
ACCGCGGTGGCGGCCGAGGTACGCGGGGGAGAGAGGAAAAGAACACAGATCTCGCATGGT
TCAGATTTTTCTTTTAGGTCCAGGAGTAAGATATATCATACGAAAATGAAAATTATAAT
NCTTCTTGGATTCTGGGAGCCACATTGTCAGCCCCACTTATCCCACAGCGTCTCATGTC
TGCAGCAATAGCAATGAGTTACTTCTTAATCTTAATAATGGTCAACTTTTGCCACTACAA
CTTCAGGGCCCCACTTAATTCATGGATTCCACCTTTCTCTGGAATTTTACAACAGCAGCAG
CAGGCTCAAATTCAGGACTCTCCAGTTCTCTTTATCAGCTCTAGACCAGTTTGCTGGA
CTGCTCCCAAATCAAGATACCCCTTAACAGGAGAGGCCAGTTTTGCCCAAGGAGCCAGGC
AGGCCAAGGTTGATCCCTTACAGCTTCAAACACCGGCTTNAACACAACCCAGGCCCCAGT
CACGGGGATGCCCTATGTATTCTCCTTCAAATGCCTTAAGAGCAAGGCCAGATGGTTT
CAATACCTATNCAGTTTACATGGGC
CCGCGGTGGCGGCCGCCCGGGCAGGTACTGCAAGCAACAGTTACTGCGACGTGAGATCAT
CAAGAACACGTAGAGAAACCCAGCTGTAATCATGCATGGAGATACACCTACATTGCATGA
ATATATGTTAGATTTGCAACCAGAGACAACCTGATCTCTACTGTTATGAGCAATTAATGA
CAGCTCANAGGAGGAGGATGAAATAGATGGTCCAGCTGGACAAGCAGAACCAGGACAGAGC
CCATTACAATATTGTAACCTTTTGTGCAAGTGTGACTCTACGCTTCGGTTGTGCGTACC
T
Sequence 702
GCGGTGGCGGCCGAGGACTTTTTTTTTTTTTTTTTTTTATGAATTATTTATTTCTTT
CTCANAAAAGGATGCGCCTCCACTTAGCAAGGCTGGGCAGGATGTGGTTCTGCATCTGCC
CACAGACGGGGTGGTTCTAGACGGCCGCTCTAGAAGTNGTGGGATC
Sequence 703
GGTGGCGGCCGCCCGGGCAGGTACAAGACCTTGACACGCCCAAAACACTTCTGCAGATG
TTGNCGTTGGAAACTGTCGTCTTACAGAAGCCAGTTGCAAGGACCTTGCTGCTGTCTTG
GTTGTCAGCAAGAAGCTGACACACCTGTGCTTGCCCAAGAAACCCATTTGGGGATACANG
GGGTGAAGTTTCTGTGTGAGGGCTTGAGTTACCCTGATTGTAACTGCAGACCTTGGTGT
TACAGCAATGCAGCATAACCAAGCTTGCTGTAGATATCTCTCAGAGGCGCTCCAAGAAG
CCTGCAGCCTCACAAACCTGGACTTGAGTATCAACCAGATAGCTCGTGGGATTGGTGGGA
TTCTCTGTGAGGCATTAAGAAGAATCAAACCTGTAACCTAAAACACCTACGGTNTGAAGA
CCTATGAACTAATTTGGGAAATCAAGAAGCTGTTGGAGGGAAAGTGA
Sequence 704
CGCGGTGGCGGTCTGCCCAGATCCATGATGTGCAGTTCTCTGGAGCAGGCGCTGGCTGTG
CTGGTCACTACCTTCCACAAGTACACGGGTCTATTTGGCNGTGACCTTGCTCTGGAGACN
ANGATATCCCTTACGCTGAGGGAATTGATGTTGATGAACCCGGAGGCATCAGTTGGCTC
ATAATCACCTGACGTTCTGCTCACCAGCTCCTNATTGTNNAGAGACAGNCNGGGACT
CCCGGCCGAGGATGTACCT
Sequence 705
CCGCGGTGGCGGCCGAGGTCCGACGCAGCAGGCTCCGAAGATCATACAGACGCCATTACC
ACTCTTGGCTCCCAGAAACCTCTGCGCCCCGCTACCTGCCCG
Sequence 706
CCCTTAGCGTGGTTCGCGGCCGAGGTACGAGTAAATTTTATTACCTTTAATTAGGCAATG
TTTCTTAGATAACCATAAACTGCAAAAGCAATTTTAAAAATGTAAATAGGACTTCATC
NAAAAGTAAACGCTTCAAAGATACTACTGAGAAAGTCACAGAATAGGAGAAAAATCTGA
TGAGACTTTATGTCTAGAGTAATGAATTTCTTTAACGAATAACCAACCCCTTTAAAAA
ATGGGCAAAAGATTTGAATAAACATTTCACTACAGACAATAAACAAATGGCCTTAAGCAC
AAGAGATGCTCAACATCAGTAATTATTAGGGAAATGCCAATCAAACCTACAACGAGATAC
CCTATATCCACTAGTATGGCTATAATAAAAAAGAGTAACAAACCGTTGAGGAGGATATGG
AGAACTCGAGCCCTGGTCAGGTGTGGTGGATCACACCTGTAATTTCAACACTTTGGGA
Sequence 707
CCCTTAGCGTGGTTCGCGGCCGAGGTACCCATATCCAAGGCTTATTGCAACTTTTAGTCTT
GCCCCTGCTACTTACACAGTCCAGAATCACTTGGGTGAGCATTCCAGTAGGACGGTGGCA
TTTTAGGATTGAGAATATTAACCTATAAACCTGTCAATTTGATTCTTGATTATTAATGTCT

Table 1

GGATCGCCTGTGGTAGGGGTGTAATCCCAGGAAGGCATTAAATATATTTGAATTAATGTA
TATTTTGAGAATAAAAGGCTATTTCTAGAAAATATTACACACTTGTCTTATGTTAAATAA
AAATTTGCTATTTATTGAATATCCCTTACCCACCCCTTCTTCCCAATGAAGATCTTATGCA
TACCTTCACCTGGAAGGTTTAAGATGTGACAATCTTAATAGATCTTTGTGAGACCAGCCAT
TTCTCTGTTTATATTTTGNAAACCGCCANAGCAAGGGCCATGCCACCTTTCTCATTGGACC
T

Sequence 708

CCCTTTGAGCGGCCGCCCGGGCAGGTACATCCTTTTGCATGCTCAAGAGCCCATTCTTT
TCATCATTGGAAGCAACAGCGGCAGTCCCCTGCCCAAGTTATCCCACTAGCTGATTGCT
ATATCATTGCTGGAGTGATCTATCAGGCACCAGACTTGGGATCAGTTATAAACTCTAGAG
TGGTAAGTGTCTTACATTCTTTAAGCACTAAAGAAAACCTTTAATTAGCTACCTTGCTT
CCAGTAATCAAACCTAGAGCTCCTCTGCCTTGTGTAAGTTGCTATAAAGTATTGACTATTA
GAATGTCTTGAACCTTGGTACTGNGAGCCAAAGTCGGTGCTCAAAGTATATTTTCATAGT
CTCAATTATAGTAATTTANGTTCTGAAAAATAGGTTCTGGCTTTGCATATGTAATATT
TTGTGAGTATTTACTTTGGAAGTTTGGTCGACCTAATGGATAAATTTAGAAGTTTATTT
TCCTT

Sequence 709

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGCATGGTCCATACCACTGTTTACTTTTCTAG
AAAGTTGTTAGACTAATTTTTCAACAAAATTCTTTATTGTCTTGGTAACAAAAGAACGA
TACTAAAAATTCTCAATAAGGCACAGTGCTCNTAGAAGCTTGAGCATTCAACATAAACTT
CTAATTAACACGAACCTGTGCTCTTATTTAGCCATTGCTGTGTGGGCTTGAGCCAGGA
GAAGATGCAGAGGAATTTACAATGAATTACTTCCATCAGCTGCAGAAAATTTCTAGTT
TTGGGGAGACAATTACAAACATNGTTTTA

Sequence 710

CCCTTTGAGCGGCCGCCCGGGCAGGTACGCGGGCTAATCCCAGTTATGAGGGCTCTGCC
CATGACCTCATCACTTCCCAGAGGCCCTTACCATCTAATACCAATACATTGGGTTTGAAT
TTCAGCATGAGAATTTGGGGGAGACAGTCAGACTGTAGCGATGATTCTGGAGTATTCATC
ATTTAAGAGACACTTAAAAATGATCAGAAAGGAGAGGATGAAGGCTAGAACTAAGACTTT
AGCGTTGAACATGGAAGGAAGTGATGACTGCAGATATCTCCAGTACCTCGGCCGCGACC
ACGCTAAGGGCGAATTCCAGCA

Sequence 711

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTNGAT
AGCCATATACCAATAAATGTTCTGTGACTAGGGGTTATGGCACAATGGGTATTGAGACA
CTAAAACTCTGCTTCAGGCTTCCATCCTCTTAATTTTANAATATCTCTGATTTCCTAAT
TTTCTGATTGACATCTTTTGGTAGATTATCGGGTTTTACTTTATGTTATTGACTGATCC
TTTAGAATGATTTCTTTTGTCTGGGAAAAAAATGCATTCTAAATCANATTCATAA
TACTTTGATTCACTTCCAAGGAT

Sequence 712

CCCTTAGCGTGGTCGCGGCCGAGGTACTTACAAAAATTTTAAACATTAGGAGGTAATTAT
AAGTAGATTCTGTGATTAGGACTTCATTGATCTTTTGTCTACATAAACCTTTGTTAG
ATTAATGGAAGACACCTGCTAGGTGATACCTTTTATAAAACATATGAGTAAGTCATATA
TCTTTGTTAAATTTCTGTATGTTCTTTTGTATAAAGATGGAGAGAAAGGATGGAGTGA
TACTAAGGACCCTAATAACATCTCTGTTCAAATTAATTACTAAGTGATAGAAGTATTCAT
ATGCCATTAAGATTTGCCAATTCTATTT

Sequence 713

CCCTTTGAGCGGCCGCCCGGGCAGGTACTGACACAAGGACTCCAGGCCACACATATCT
TCTTGAAAGCCCTTTTCTGTTTGAAAAAAGATCGTTTGATTTGATAGAGCAAAAGAA
GGCCACAAAATGAATTGTCTTGTGGGCTGTGTTTCAGAACGGCCGGTTTGTGGGCGA
TGCTGACCTTGAAAGACAGAAATTTTCAGATTTGAACTCAACGGACCCAGGTAATTCT
TTGGCTCAAGACCTGGGTTGCTTCATTCATATTTCTTATTTCCCAGCCTATAAGAGCA
TATTTGTGCTTGTAAAGGTGCCTGG

Sequence 714

CCGGGCAGGTACATATGCACTATTTAGAATATGACATTAATCAACCACTAGAATTAAT
CAGGTTATAATCCTCAAAATCACCAGAAGTATAAATTTAAATGAAAAACCCAGACCACA
GAACAAAAACAGAAATACCAAAAAATAATCACAAAATATTAAAAACAGTATATAAACACA
GTGACAGAATTAGGACTAAACATATCTGTAAAAAATAAATGTAAGGGTAATCTCACCAA

Table 1

TTATGAAAAAGACCTTCAGATCATATTTTAAAAACAAATTTAAAACTCAACTGTATGTTT
ATGCAAGAGACAGATTTAAAAATAAGAGACTCAGAAAGCTGGAAATAAAAAAGAAAGTGC
AAAGAAATAGCAAACAAATACAGGCATAAAAAAAACAAAGATCCCAATAGTACCTCGGC
CGCGACCCAGCTAAGGG
Sequence 715
CCCTTAGCGTGGTCGCGGCCGAGGTACGTGTGCTGGATATGCAGGCTTGTTACATAGAAT
TGGTGTAATTTGAAAACCATGAAAAATAAAACAATAAAGGATCTAGATGCTAATAAT
GTGGTAGTTAACATGTTGACCATTTCAAAGCAAAATAAGTCTTTGATGTTTTATACTAT
TCATAGCAAGATATAAGTATTTAATCTGCAAAGACGTGGATTGAAAAATTCAGCTGCCAA
ATGTAAAGAACAGATTCTAGATTATTATTAATAATATCTCTATAAATATTATTTATC
AATAATGGGTACCTGCCCCGAGCGGCCGCTCGAAAGGGCN
Sequence 716
CCCTTTGAGCGGCCGCCCGGGCAGGACAGTGGTGTGATCTTGGCTCATTGCAACCTCCA
CCTCCTGGATTCAAGCGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGCAC
CTGCCACCATGCCCGTGAAATTTTGTATTTAGTAGAGACAGGGTTTACCGTGTTGG
CCAGGCTGGTCTTGAACCTCTGACCTCAAGTGATCTGCCTACCTCGGCCTCTAAAGTG
TGGGATTATGGCGTGAGCCACCATGCCACCTCCTGGGTCACTTCTCTGGATATTACCA
GGCATTTTTATGCTGATCTAAGTGAAAACCTGGATTTTTTTTTCTCCAAAGTTATTTCT
TAGTTCTACCTATGACATGAGGGTGATCTTTATAATTTTTTTTTGTTTTCACTGAAGAAA
TAAACATTGCTTAANGGGAGAGTTGGGGGAAGTGCATANGGGATCTGCAGTTGGGACT
GGATTTTTCGGGT
Sequence 717
CCCTTAGCGTGGTCGCGGCCGAGGTACTAATCTAAATGCTAGACAGTTCAAGTGTAGCTT
TGGAGACTTACAGATAGCCAGCTAGAGAACTACCAATGATGATATCCATCAGGAGGTT
TGGTGGCCAGCCTCCAAGATGGTCTCAATGATCTTTGCATCTTCATATTTCCACCCTGT
GTAGTCCCCTCTCTCAGGGGATTAGGGTTGGTCTGTATGATCACCACATGGCTGCAGTAA
TGGTATGTCACCTCTGAACTTAGGTTATAAAAGACTATGACTCTCATCTTGGGTGTCCAC
TCTCTGTCTCTGATCTTACACTCTAGTGGAAGCTGCCATATTGTGAACCTCATGGAAG
GCCCACAGGGTGAAAACTGAAGCATCTAATCAACAGTTAGCAAGAACTGAGCCTGNCA
ACAACCATGTGAGTGACCCCGGNAAGATTTCCAGTCCCAGTCAAACACTTGANATAACC
GGCAACCCCTAAGCTGACAGCTTAACTGCNANCTGATAAAAGACACCCTTGGGNCAAAAC
CATNNGGAACCATTCATACCCCA
Sequence 718
GATATCTGCAGAATTCGCCCTTAGCGTGGTGCNNTTTCGAGGTNTTNGGGGCGGGATAAA
CATGGCGACGTCTCTGCATGAGGGACCCACGAACCAGCTGGATCTGCTCATCCGGGCCGT
GGAAGCATCAAGTTCACAGCAATGACACTGTGGCAGGAGAATCGCTTGAACACGAC
AGGCGGAGGTTGCAGTGTGACGAGATTGCACCATTCGACTCCAGTCTGGCGACAAGAGG
GAACTCCATCTGAAAAAAGGAGAAATCTTTTATTTTCTACTTCTCTCAGATTTGTC
TTATGCATTTTCCAATATGTATGCATCACAAGCTATTCTTTTCTGAGTTATAGCTACA
GTTTTCTACTGTTGTCTNCATGCCATTTTCATTTACATGGTACCTTG
Sequence 719
CCCTTTGAGCGGCCGCCCGGGCAGGTACTIONNNTTTNTNNNTTNTNTNNNGGAGAC
AGGGTCTCGCTCTATCACCTAGACTGGAGTGCCTGGTGCAATCTCGGNTACTGCAACCT
TCACACCCAGGCTCAAGTGTCAATCCTCCCGCCTGAGTAGCTGGACCACACGTGCGCAC
CACTAAACCCAGCTGTTAATACACCATTTTAACCCAAACATTAAGAAAAATATAGGA
ACAGTAAGTAGATTACATTTTGTAAACAGACAAAGCTTACAAAGTTTTCTCAAATATGAA
AGTCATACTAACTGGGAGACTGTAACTTCTTGATGGGGTTAATCTCTAATATGAAGCC
NCAGTCATAGCTAACTACAAATACATATACAATGCCAAAAATNTTCAAAAAATAACATTT
TTTGCCCTTAATGGATTACAAATGCTAACCNACATAAAGACCCTGGGAAAGGGTTCANAA
TCTNCTCATTACATACTTTCAAAATATCTTNCCTTTACTTTCATGAAATGGACCCCGGAA
TCTATGTAAAGTGATGACNTGNCCGGNGTTCCAGNGTTTNTTAACTNAACTTGAANAAA
GGCCCTAACTTAAATGGGTTTTTGAANCCTTTTCCAAATTNGGGTNTTGGTTGGAC
CCNNTNAAANCTTTTTANCAATTNTTNTTTTAAACCCCTTGGGGGGGGGGGGCCCCC
AAAANAAAAANGGGCCCTTGGGTAACCCCTTTTTGGG
Sequence 720
CCCTTAGCGTGGTCGCGGCCGAGGTACTTGAAGAACATGGTAAAAATATGTTACAATAA

Table 1

TATTTTATCTTAGAAATGTATTCAGTAAAAAATCTCTTTATTCAACTATCCTCTTGATTC
AGGGGAAAAAAGGATTAGCATGGGAGATAACAGAAATAGGAAGTTTAGGAGATAATGAGAC
TTCTGTTTTAGTAAAGTAAATAAGCTTTAATAGTTTTTGGTCATGTATTCAGTTTACCA
GCCTTGAAGATATTTGTAGGAAATTTTAAAAGTTTCTCTATTTTATCCCCATGATAAAA
ATTATATAGAATAAAAGCTGAATTGAACCTTCTTACAGCACACTGAAAAATATCTTCTA
TAGCATTAAATCAGATCACAGAATGCATTTTAAACCAAAATTTGACTAAATTTTTTTA
ATTATTTAATTTTTTCTGANACCGGAGTCTGGCTCTTGTCTNCCCAAGCTGGANTGCAAT
GGCNGGAACNACTTATTGGAAACCTCCGCTCTGGGTCAAGCAATTTCTCCNCTTG
GNCCTCTAAAGTGCCTGGGATGGCAGGCCTGTGCCANCTTCTGGCCCANAGNNCCGG
GTTTTGGATGGTTGGGTNGGTNGGGGGTTTTTTTTTCCCTAAAAACCTTNAATTTCC
CCTTTTGGTTTTTTTCCAAAAAATAACCCCTTTTTTTTTTACCCCCCTT
TTTT

Sequence 721

GCAGTGTGATGGATTCTCANAATCCCCTTGACGGCCGCCGGGCTGGTACGCGGGGTTAA
CTATGTTTTCTTAAACAGAAAGTTCTGTTTTGTJATCCTTTTAAAAATAAGCTTCACG
GAAGGTATGAGAAATAGTATTTTCAACTTTAAATTTCTCATTACCAGAAGACCATGTGGT
AATTCTCTGTATACAGTTAGAACAGCACGAACTTGAAGGCCTAAAAATAGCTGACC
TTGTTAAAAATGTTGGCGTGAGCAGTATATTATFACCTATCTTTTTTTATTGTGTGTG
TGTGTGTGTGTTTTAACTAATTGGCTGAAATATCTGCCTGTTCCCTCTTTACATTTT
CTTGGTTCTTTCCTATTATCTTTGTCCATCTTGGAGATCTACTGTAAAGTGAATTTT
TTAATGGAAACCAAGTTCCCAAGTTTTACTCTCAGTGGGTTTNGGGACATCAGATGTAA
TTGAGAGGCCAACCAGGTAAGTCTTCATGTCAGTNGTTTGGTTGAAGGAAACGAGCCTA
TGAGGGTCAGTTTTTCCCCAAAANGAA

Sequence 722

NGCCCTTAGCGTNNTCGCGGCCGAGGTACATGAACCTATTAATAAACCATTCATGCTTCC
CAGTTTGGCAGATGTGAGCAACTATGTATAGGAATTTCAAAGGTAACTTTTCTTTCA
TTACTTTACAGAAATACTGTCAAGTCCAATAGAGAGCACAGACTTGGGAGGCGGATTGGG
TGGGTTTGAATCTCTGCTCTGCCACTTTTATTATCATGTGAGTTGAGTATGTACTTAA
TCTCTTTTAGCTCAATTTCCCCTCTGTAAATAGGAATAATAAAATACTGACTTCAGA
GAGGTTTGTGAGGATCAATTAGACAGTCATGTTAAGTCTGTAAATGTTTCTGTAATGGG
CAAGATAGCAAAATATTTAGATTTTGTGGACCATGCAGTCTTTATCATAACTGCTTAACT
GCCATTATAGTGAGAAAGCAGCCACAGACAATATGTAAATGAAAAAGTGTGCTCTGTTC
CAATAAACTTTATTTTCAAAAACCAAGCTGGGCTTGNACATCTGGCCTATGGGCCATAA
GTTGGCCCATCTCTAATGTAAAGAAAGGACTTTANCCCAAAGCCACAACCTTGCATAGTAA
TGCCTTAAAAAATGGTAACATCTTTACTGGTATTAATAATTACTACTGCATCTATTACC
AGNAGCCAATTGGAGTAATGAATCCATGAATGGTATAATGGTAAATACTAACCCTT
Sequence 723

GATATCTGCAGAAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTACTTTGTTGCTCT
TTTTCTAAGTTTTAAAGATGGATGCCAATCTCAGGCTTCTTTTCGTGTGTATGTGCGT
ATGTCCATAAATCTCTTCTAATTACAGTGTAAAGCCACATCCCACAAGTTTTGATAGTCA
CAGAACTGTATCGTCACACTATTTTTAATTTTCAAGTTCCTTCACTGATCCCTGTGTA
ATTTAGAAATGTTTCATAATTTCCCTACATTGGAGGGGAAGATAGTTTGNTTTTATTAT
TAATTTCTAGCTGTANTTGAGCTCTTGTGAGAAATATGGTTTATTTAAGTC

Sequence 724

CCCTTTTNAAGCGGCCGTTNNGGCAGGTACTCCTCAGCTTGTGCTGCCCTTCTCGAATGAC
TCGCGTTTCTGCTTTTCACTACACCTCCCACCGCTCTCCATCACCTGCTCTGCTCTT
ATAAGGATCCAGAGAAATGGAATAATCTTATTGCTGATCTATGTAAACAAGTTGAAGAAT
CGTCTGAAAGAAAATACAGTGTGTCTAAACTGGAAAAGTCTGTAAATAGTTTGTTCATGA
GCATTTGCACAGTGGAGTTACTGTTTCATCATGGGGGTAC

Sequence 725

CCCTTAGCGTGGTCGCGGCCGAGGTACTAATCTTAAATATTAACACTGGTCAACT
AAAATGCACAAATTCATGAATTGGATTGCACTCAAACAAAAAATACCATAGGCAGT
ATCATTTCTACCTTTGTAAGAGGCAGGAATTCATTAGACTCTATGCTTGACTTTTCAT
ATGTATTTTAACTGTAGTAGGCTATCGGGTCTAGTTTAAAGCTTCATTTCTAACTACT
CAACAGCTCAGAACTGACAAAGATCACAAGAAATCAACTATTAACCTCTTGCCTGAAGAC
ACAAATGAAATATTCCTATTTTACAAAGCAAATTAGATTCCAAGATTTTCAAAGCCAT

Table 1

ACTCCTGCAGTTCAGTGGGTTTCAAACCTAAAAATCAT
Sequence 726
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTCACTTAAATAAATAATTGGTAAGATGATT
TTATCTGACAATTAAGGTATATGTGAAAAACCTTAAAAAAATCTATTTTCATTAC
ATGTTGAAATGTTCTGTGCTTAATCCAATACATCATTTAAATCTTTTCACATTTGGACA
ACAGAAAACTGAAATCTATGGATTCCAAGCTGCAAAGTATTTATCTAAATTGCAAATC
AAAAAC
Sequence 727
GATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTACATTCTATTGTTATC
TCTATTTTTTGGATGAAAAACAGCAGCACAAAGTTCAGTAACTGGCCTAAGGCCAC
ACAGCTTGTCTTCTGAAGACTGGACCCAAACCCAGGCAGTCATAGAACATGCTGGTCCG
TATTGGGCCGCTTGTCTATGGGGGACGGTGTCTCCAGGAACACAGCAATGCGGTTAGGA
TTCCAGGACCTGGGGCAGCTGTCTGCTTCTTTCTAGTCTCGACAGACCACTGAGTGCAG
TTTTCTAAATCTTTCCCACTTTGATATGTGGTCCATAAACTGCTCCACACGTATA
ACCCACTGTGAAGTTTAAATGATTTTCATGTTTGGGCAAATTCCTACTGAATGTTAAGCT
AGATAGGAAACAAGTCTGACTAACACAAAAATGAAGGGCTGAATGAAGAAGTCNTACTTT
TATAAAGGAATTTNCCCTTCCTCACCAAATC
Sequence 728
CCCTTAGCGTGGTTCGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGGTAGAG
ACGGGACCTCACTGTGTTGCCAGACTGGTCACAACTTTTGGGCTCAAGCAATACTCCT
GCCTTGGCCTCCCAAACCTGCTGGGATTACAGGGATAAGCCACTGTATAGAGTATGAAAAG
TATTTAAAAGAATCTTCAAAGGAGGACAGCAGAAATGAAAATAAAGTAAGTTCAAACCTA
GAATCCTTGACACAACCTGGTTTTATTCCCAATGCCTCTTAAAAAGAATCGTTCCATGGGT
GGCAGGAGGGGTGTTTTTCATGGTGTGATGCACCGTGACTTGTTATTNAAGATGTAAGTCC
AGTGGTCCATCTATCACGTTTTATACCTTTCGAAAAAAAAAAAAA
Sequence 729
TCTNGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTT
CGANCGGCCCGCCCGGGCAGGTACTTATCAGGATGAAATCAGAATCACAGTTGGCCTTTTG
CCATAAGGGAAGGGTATTTGGAGAAGAGTCAACCACCACTCATGCCTCTCCCTGCCAG
CAGCACCTTGGATTTTCCCTGGCTTATGCCTCCTGTTTCCCTGGCTGAGTAACTGCAGG
CATTAGGTTCTCTACACACGATATATTACAGGGAATGGCAGCGATGGTCTGGAAGGGC
AACACTGGCCTTCTTCTCCTGAGCACTAAATCCTAAACATGCAACTTAAAAAAAT
TCTAAATGTGAACACCACCTTTTCAGT
Sequence 730
GATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTACTCACTTAAATAAAT
AATTGGTAAGATGATTTTATCTGACAATTAAGGTATATGTGAAAAACCTTAAAAA
AAATCTATTTTCATTACATGTTGAAATGTTCTGTGCTTAATCCAATACATCATTTAAATTC
TTTTACATTTGGACAACAGAAAACTGAAATCTATGGATTCCAAGCTGCAAAGTATTTT
ATCTAAATTGCAAATCAAAAAACATCTATAACATCTTGTGGGGATACAAAGTCTCCTG
GCTG
Sequence 731
CCCTTCGAGCGGCCCGCCCGGGCAGGTACTTTTCTGAAGAATACATCTTCGTTCAATGTGG
TCGATTTCTTAATTTTTCTATAATATTGCTTGTAACTCTTAGAGTTATGGTTTCATTTT
TTGACTATTAAATTTGAAATGTTGACATCAGCAGTTGACTCTTCTGTGTAGATCATAAT
TTTTAATTAAGAAGACACTCTCAAGTGTGAACTATAATTGTAGAGTAAATCTAAGTG
GAGGATATCGTAAATCTTTTTTGTCTTGGTATTGACATGTAATGTTAACATATGTGAA
TAATTCAGTCCCCGATTGTCACAGGTTCTATGTCTTTACCTCCTTTCAAAATACTTTCTT
TAACAAATACTTTGACAAATTTATTAACCATTTATAAGACAAGACTTACCAAGGTGGTGT
TCGTTTATGAATCTTTAAATGTTTTCCAATACTTAAGATACATCAAAATTATAGGACTTC
TCAATTCATCCTATTGTTACCAGAATATNAAA
Sequence 732
CCCTTAGCGTGGTTCGCGGCCCGAGGTACTTTTTCTTTCTTTTTTTTTTTTTTTGAGATG
GAGTCTCGCTGTGTTGCCAGGCCGGAGTGCACTGGCACAATCTCGGTCACTGCAAACCTC
GGCCTCCTGGGTTTCATGCCATTCTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGTGCC
CGCCACCAAGCCAGCTAATTTTTTTCTTTTTTTGTATTTTATAGTANATACGGGGTTTC
ACCATGTTAGCCAGGATGGTCTTGATCTCCTGACCTCGTGATCTGCCTGCCTCGGCCTNC

Table 1

CAAAGTGCTGGGATTACAGGCGTGAGCCACCACCCAGCCTATTCCTTTACTTTCTTAA
ACTTTCTTTCACTTTACTCTATGGACTCACCCCTGAATTCTTTCTGCTCAAGATCCAAGA
ACCCCTCTTTGAGGTCTTGATCGGGACCCCTTTNCTGTNACACNAACTGTATCCCCCTT
GGCAGACATATGAATTTGCACCCCGCTTGGGTCTTCAATNTCCAGGGGATGAAACAAGG
GAGGNAAACCGAGGGGAAAA
Sequence 733
CCCTTAGCGTGGTCGCGGCCGAGGTACAAAATATGTGAGAACGTATACTACTTCTCGGC
CACAACTACTATTTTAGATATTCATAAAATAACCTCTGATTGTGTTTTACATTGCCCCA
TTCAGTTCTGTCCCAATCTTATAATTCTGATTAAATGTTCTGGCCTCAAACCTAATTTTAA
AAAGGCCACTAACTCCAAATCTAGGAACAAAACACTCTGTAAAGACTCTGTAACCTGTAT
AAAATTAACCTTGAAAAATCACTCACTCCAATAAACTATGATTTATGTAGCTCATAAGA
GGGTGAATTTTGAATTTTACTCTATGAAAAAGCCTAAGCAATTCAATAAAACTTGAT
AACTGCACGTTTAAAGTTTGCAGCATCTGTACCT
Sequence 734
NGCCCTTTTCGNTTTNCGCCCGGTACAGGTACTTTCTCTGAATTTTATTAGCTACATTA
AAAAGAAAAGATCAAATGCAATAGACTGTAATAGATTTTGTACATTAACAAAAA
TCCATTTGAATACACAGTGAACATAAACACAGAGTGGCTAAAAAGTCCCTTCATGCATA
TTTACTTAGCAGAGAGCTCTTGAGAAAGACCCAACCAATAAACCCCAACCAAGCAAAATC
CAGCTACTTCTCTAGCTGAGAGGGTGAATGACTCCAAATATTGTTCAAGCTCAAAAA
GCCTAAACAACCTCCACATAAAAAACAAAATCTATCTAATTGGACATTTACCTTTTTG
GAAATAAAAGGCCAGTGGGAAAAAAAAAAAAAAAAAAAA
Sequence 735
CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTNGNCACAGAC
ACAGGCTGGGAATTTCCCAAATCTTACAAGTTCTCGTCCCTTTCCCTTAACAACCTTTT
CGGAGTATCTCCGTCTTTTCACTTTATTGTAAGCGAGGAGAGCAGCCAGGCTGCACCT
TTAACATTTTCACTCACAGGATCTCAGCTCAGCCAAGTCTCAGCCATTTTGTAAATGAGGA
TCACTTTCTCCGGTCCCGTGACCTGTCCCTCGCCTCCTTAAGCCTCAGCAGAAAGG
CCTTCAACATCCACTTTTCCACAACATTCTGTCTATGATACCTGCATTCTCTGAGATGCT
AGAAGCTTTCTCTCCAAGCTCTTCCCTTTCTNTCTGAGCCTTACCCGAGTC
Sequence 736
CCCTTCGAGCGGCCGCCCGGGCAGGTACTTGTCTGCTTCAATAAAATTTGTCTTTGATT
TCACTGGTGGAGGGTGCTTGATCCAGCTTTTGCTTCTCCATGAGGAGGACTCTGTTTTT
CAGTTTCCGCTTTTATTTCTCTGAGGGGAAAAAAGAACATACATTANAAACTGGA
CAGCAGAAAGACTGAGTAATTTCTTAAGTTCTATAAACTCATTGGAACCTCTACAAAA
GTTGGAAAGAATGCAATTTAATAAAATTAGATGCTAAATTTGTTTCATCTAAATTTT
TAATTTACACAAATAACATAAACTATATGAATAGGTACCTCGGCCCGGACCACGCTAA
GGG
Sequence 737
NATTTTTTTTTTTTTTTTTTNGTTTTGAAACCCCTTATTTCGGTTTCTCAGTAACAGT
GATGCATTATAGAAATCTTGTCTGCTAAACTTCATAGCAAACCGATCCAGTCCCTCACC
TNATTGTGTGGTAGCCAGCAGCAGAGAAGATAGGAATTTTCTGCCCCCTAGCAATACTG
TTCATCCCATCAGATGGCCGAAATGCCAGTCTGAATCATTCTCTGGGTAGATTCNACA
TTGAGGGTTGATTGGCTGACCTAATGTNTTTTCCAAAAAGGAAATTTCAACAAGTTGCC
CGCATTATTCATGAATGANAATTAGATNTCATATCAAAATTAAGAAAGAAAGAACACC
AGANGACCAGAACTACATAAAGCATCTCTTTACTACAAAAA
Sequence 738
CCCTTAGCGTGGTCGCGGCCGAGGTACTATCTGCTCTGAATTAATTTAGAACAAAAAT
CACCTGCCGTGCCACTACACATGGACATAATCAACTGCTAAATTATGATTTGTTTCTTC
CAGTTACTTTTCAATTTATTTTACATATACAAATATTTTCTTGGTAGAAGAACAAAAGT
GGCACTATTCATTGTGTAGTTTTTTGTAACCTATATTTTACCCTAAGCATTTTCTCGTT
GTCTTAAATTATTAATNGAAATTTTATCATGGCTAAATAATGCCTAGGCTGCCATGAGTC
TTTTCTCCTTCTATAAACCGTGTGACGATCTTTTATATATCTTTTACGACATCTGCA
ATGATTTCTTTGGAATAAAATTTCTAAAGTTTCGCTGGATCGAAAGAATCAGGGATTTTA
AGTGTCTTTCAATTTGGCAAAGTATTTTTTCAAGAAACAGCCATTTTAAAGTTCTGAAT
AAACAAATCTTTTTTATGGNGCATTTAAATCTACCTCCTTGTAGCCATATGCNNGGGA
AAAATGGAATTTTGGNCAACCATGCTTTTCAATATCTTGAAGAATTGGTCTAATTNC

Table 1

TTCTTTATGACCTATTCTGNGTTCCTGGGACTNTACATTAATCTTTNCCCATGGATATT
ACCATTGGAAAGGG
Sequence 739
CCCTTAGCGGCGCCCGGGCAGGTACACAGTTTCCTTCTTCGAAACAATCCAGAAGTAGG
CTAGCAATGGTCACCCCTACATACTTCCGCACACATCTTTCAAGAACAGGACACCATTAC
CACACCCAAGAAAACCAGCATTTAATGAATTTATTCAGGAGTNTCATCCAACATACTCAA
ATTTCCACAGCTGTTCCGAAAGTATCCTTCAATTCTGGATCCATTGATGGNTCACAGGTT
GTATTGGCTGTACATCTTTTAGTTGTTATCCTTCAGAGTAAAACTGGCCTGCCCTC
TTTCTTTCTTTACAATATTGACTCCTTTGAGGAACCGGGCTGGATGTGGAGCATTCTCC
ATTCATCTGATTGTTTCCATGTGACCAGATTCGGGGTCACAAAATTTNTGGCAAGAACCC
TTCACAGATGACCATGTNTTGGTTATTAGGTAACAATAGATTCTCAAAGTAGAGAAGCTGG
GAAATTGACCTTTGTCCATTACAAAATAGAAATTTTTTTTGAATACTAGAAATCCTCAN
GAATNAATTGATTTCTTTCTNTTTCTTTTT
Sequence 740
CCCTTTGAGCGGCGCCCGGGCAGGTACATTGTCTGCATTTTGAGATTTTCTATTAT
CTTTCTGGTGTTGATTTCTGTTAATTATACTGTGATCTACAAGCAGCACTGTATTATTT
CCATTCTTTTAAATTTGTTAAGGTGTGTTTTATGCTCAGAATGTGGAGTGGACTATTTTG
GTGAGTGTCCATATGGACTTAGAAGAATGTGTTTTCTGCTGTTGTTAAATGAAGTAGTC
TATGTATGTCAATTATTGTTTGATGATTGATGGTGTGAAATCAGTTATGTCCTCACTGA
TTTTCTGCCTGCTGGATATGTCCATTTCCAATAAAGGTGTGTTAATCTCTATCTATAATA
GTGGATTATCTATTTCTCCCTGCAGTTCTATCAGGTTTTGCCTCATGTAAGTTTTGGAT
GTTCTGTTAAATGCATACACCATTAAGGACTGTTAGGTATTCTTGGGGAATTGACCCCTT
TGGTTTCTATGTAATGCTCTTCTTTATCATTGGATAACTTTCCCTTGCTATAAANGCCTG
GTCTGNCTGGGAAAAAANACACAGGTNGNTACNTCTTCCCTT
Sequence 741
CCCTTTGAGCGGCGCCCGGGCAGGTACTTCAGGTAGAGATGACTTCAATATATGTGCG
CAGACCTCCCAAGGTGAGCATCACACAGCACTTATCATAATCCGAAGCAGCTCCACAGAG
GCTAAGATGAAAACAAAAATCTCAGGAAATTTATGTTTATAAAAAATGATACTTGCAAAAA
AATGAATGGAACCATCTCCATTGCTTATTTAGAGTGTGACTCACTGAATAAGATTTTAA
ATTAGTCAATAGTATTGGATGCCTCTATATCTGCATATCAATAGGCTCATAACAAGGTT
GCTCAAAGAACTGCCATCAACCACTTGGTTTCTCTTTGGACACCACACTGGTTATCTT
NCTTTGGCCTCTGCCATAACGGGTCCAGGCTACGTGCACCAAAGGGAAAAAGAAATTGGGGT
NCTTCTTCCCTNCCCTGGTTTGGTTAGGA
Sequence 742
CCCTTAGCGTGGTCGCGGCGGAGGTACAGGTTTCCCTTGCCTCAACTTCTCATCCTGGGT
GATGAGACTGTTACTTTCTTCTTGTATAAAGAGGGCAACTTTTATGTAGAAATTTTACC
TCTACTTTTAAGAAAAAGGAAATCAGAGTGCTTTTAAAGGAAATCAGAGTGCTTTTCT
TGCATCTGCTATTTTCAAGTGTCTTTAACTCAAAAAAATCAATATGCCAAAGTGGCATG
TTTGGGGGTATCTGGTTCTGAATTCCTTCAGGAAAGATAGAAAGCAAAGCAAATAATA
GGTTTAAACTAAAAATATCCAGGTGCGGTGGCTCACGCCTATAATCCAG
Sequence 743
CCCTTTGAGCGGCGCCCGGGCAGGTACTCCTTGGCAGCATCAATCAGGCAGGGCT
CAGCCACACCCGGCTCCTAAAGACAAGAGAGCAGAGAAAGCAGAATGGTGTAGAGAC
CATCGCAGTGACCTGATCCTGAAAGCACCTGTAGGAAATTGGCCTCCGCCAAGTGAATGT
GACAATGCAGTCAGCCACAGTGACGGAGTGCAAGATCGGATCACCACACAGATCCAAGAG
ACCGCTCACCACACCTGAGAAACAAGAACCACAGCCTCATGGAGGTGGAACCGTGC
TACGCAGTTATGGCTTCACTACTGAATGCGATCTTGCAAAAG
Sequence 744
CCCTTAGCGTGGTCGCGGCGGAGGTACGCGGGTGTGTTTTTTTGGGTAATTTTCTTGAGT
TAGAAATGTAGTTAGAACTGTGACTAACGGCATTGCCTGGAATGTGCTACAAACACGATT
AGATATTCATTTATCTTCTCGTATTAGACTGCTTGTAAGAGACTCAGTGTGTTAGACATT
CATTTCTCTTCCCTTGTATAAGACTCCTTGTATAAGACTCGGTGTTTATCTTTTAA
ATTAAACCACAACAAATATATGAGTTTTTAACCATTGCAATGTGCAATAAATAAATATAT
CTGAAGTAGCATTAGCCTTCTAGTTTTTAATAATAA
Sequence 745
CCCTTAGCGTGGTCGCGGCGGAGGTACCTTTTTTTTTTTTTTTTTTTCGTCAAAGTCA

Table 1

CTATTTGGGCCCTAACATAATCCTGCTCAGAGCGACGGAAAAAAGGCAAGCCTTTTCAAA
CATAACTCTCTCTACAAGCCAGCTATTATGGCAAGGGAAAAAAGAAAGCATCTAGATAAA
TATCTATCAAAATTAACCTTTAAGAGAAATACTCTTTCTTAAAAAGCCCTTATTTTTTA
AGCACTAGAAAAATAAGTTACTATAAAAAAGTGGTGGTCTGGGGGGCTAAAAACAAAACAAA
AAAAATCCTCTTTTCTACATTTTTTATGTTTTCT

Sequence 746

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTAGTTAAATGCT
TTACCTCAATGGTTGAGATATTTGAATGGATTTTCAAGGGGGGGAATGCTTATTATA
ATAATAAACCAAAATACTTAACAGAAAATTGTCAGCTATTCTGACAAAAATAAACATTTT
GAGAGACTTATTTCTTTTGCCGTTTCTGTGGTATCACTCATTGTCGTTAAGTAAGTAA
AGCTTTTATATTTAGGTAAGAAGTATTTATTTTTAAATTATTTTATATTTATTA
GCACAGAAGAATAATGAGAGCCACTTTTTAGTTCAACT

Sequence 747

CCCTTCGAGCGGCCGCCCGGGCAGGTA CTCTTTGTTTAGGTATTCCTCCTGCTGTG
TCCAGGATTGCTGTGTGGTGGTGATGAGTGCTGGGAGGTGAAAAATTAAATAAGCCATT
TACCAGTCAGCATCCCAATTAATATTTGATGTAAGTGTGATCTTTGAGCCAGGCTTATA
TATTCATTTTCAAGCAGAGGAGTCCCCATTTTAAATAGAGGCATTGTCTGATGTGTTA
TGGTTAACTGCATCTGGCTTGGGTCTTTGTTTCTTTCTTTGCTGAATTAGAAGGGG
TTACTCTGAAGAGTCCAGGTCTTACAGTGTGGTT

Sequence 748

CCCTTGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
NCATNCAANAAANATAATTTTACNCTTATTNTTTGAAANANAAATTNTANGGAATTTTCT
TCTTCTAATTNAAATNCCANAATACNTTCTNTNANCCCTATGCCCTNATACTANTANCTTG
ATGGTTAGCGGGTAAGTAGGTAGTAGTANAANANCAANGGAAATTTNGGGGAGCAAAA
ANGGGANAAAAAATAAAAA

Sequence 749

CCCTTTCGAGCGGCCGCCGCGGCAGGTACCACTCACTACATTACAAAATAGTCTCTAACA
TAAATTCCTTAATAACTATACTATTATAGAATCTGATAAACCTTACATTATTAAATTG
ATTATAAAATCTTCTTGGAAAACTTTGGTATGTATCTTCAGAAGGTTTTTAAAAATAA
TATTTTAAAGGGCCTGTAACATTTCCATTCTATTAAAGCACAGNAGAATAAGTAATGGATA
TTCAACTGCATACAGAATATATAATCAAAAAACAATTTATTATTGTATTGTAGAAAAT
CATTACCAGAGTAAGCAAAAA

Sequence 750

[illegible]

Sequence 751

[illegible]

Sequence 752

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGGAGCCAT
GGCAATCTTTTACACTTGATTTAGCCAAAAGGCCAAGAAGCAATGAAAGCCATGATAA
TCTTTTTATGCAATGTATCANGTAAAAAATGGCTAAAGTATATTAGCATTTACCCGAG
TGGTATTCTTTTATAGAAGCTCAGCTACTAAAACGAGGGAGAGTACTTGGTGTATTTCTGA
AACACTCTGCGAAGTTGTGATAGCTTCTGGTGAAGGATGGTATTGAACACGTTTACG
TCTGTCCCTTTCTCCTTCTCCTGCTTACATAAG

Sequence 753

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGTATTAT
ATAAAATAATAATGCATCTTACAGGGGAAGTCATAAATCCAATGAAATAAAGTATTTACC

Table 1

TGACATATTTTTCCCATCTTCTTATTTCAACCATTTGACTGGTTGTCCAGCCCCAAATTG
TTGGACTTTTTTAAACAATTCACACTGACTGGCAGTCTTCACCTTTAAATNGTTGAGTTC
CATCCCTTTAAATCATTTAAAAACATGATTTTTAAATTTATCTCCATTACCTTATTTTG
NGTTTACTTTTTTACTTTTTATTTATTCCT

Sequence 754

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTGGTGGGGAGCTGTAT
TTATTTCCCAGGGCTGTCAAAACAAATATCCATAAATTGGGTGGATTAGAAACAACAAAA
TTTATNTCTCTANAGAANAACGTTTTCTTGCCACTCCCTGGCTGCTGGTCATTGCTGGC
AGTCCCTTGCTCTCCCTGACTAGTANCTACATCATTCTCATTCTGCCTCTGTCTTCATA
TGGCTGTCAATTTCACTGNGTGCTTGTCTCTGGGTCTTCAAGTGGCCTTTTTATAAGGACA
CTGGTCATTGGATGTAGGGCCTACCCCAATC

Sequence 755

CCCTTAGCGTGGTCGCGGCCGAGGTACATGTTGGAAGGGTTTTTAAATGTTTTGAAACT
GTGCACAGGCCAAACCCCACTTTTCAAGGACATGGGTTTTCAACTTCTGGATGGTATGATGG
GGTGATAGTAGGGTATAAAGTATCCTGAGAAGTTGAAAGCAGTGTGTGAATGGGGTGT
CTTTTCTCCCCACAATCCTTTCCCATCTGCTGACAGTAGACTTAGCACCTCACAGATGCT
TGGGCCTGGAATGAAGCCATGAAATGAAGCCCTCAGCCTTCTTGAGATCAGAGCCAT
GGTCCCTACCCACAGCACATGGG

Sequence 756

CCCTTAGCGTGGTCGCGGCCGAGGTACACAAAATATTAATAGGATATTTATTTCTAAGC
CAAATTTAGAAAACAAATTTACAACTTTTTTAAAGTATAACATAGTGTATGCTTACT
ATAAAGGAAAAGTATAAACATTACTCAAGTATATATAGAAAATGAGTGGGCTGCTGAT
CCCCCTCTATATTATCTATTGCTGTGTGACAGTATTACCACAAATACAGTAGCTGAAACA
ACACATTTGTTTTCTCACAGTTTCTGTGGTGAGGAGTTCAAGCATAGCTTGGTCTCTG
CAAGCTTACAATCCAAGGGTTG

Sequence 757

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCTTTTTTTTTTTTTTTTTTAAATGAGTAG
GAAGAGATGGTATCACAAACACAAAGCACAGGTTACTGTCTTTAAAAATTTGCGTTCTTC
TATTCTCCAATGGAAGTGGGAACAAAGAGAAAACCCCTGTGTCTCCTAGCACAAATATGGG
CATTTGTGTGGATTTAATAAATGGGCATTTGGATTGTTGGGAAAATGTGATCAATCAGCA
GGCTATAGAAACACAGTTTGATACGATGGTGAAAACCTGTCTACAATGATGTTTTTTCAG
AAATGTTGGTGTGATTAGAACAAGTCAGCAATGATGATGACAAAATATTTACATAATGTT
ATAGATGTGGCTTGCTAATGGAATACCTATCTGAGGCTGTTTAGGAATACACAAATTGA
GAACCGTTTAGTTCAAGTTTGCTTTAAACAGTGGTTTTCTGAACCTTTTTATGTTCCG
NGACCTATGATTAGNAACCATCTTACCATTTTANAATCACTGCTTTAAAAAGTNGTNTCC
GTACCTGCCCCGGC

Sequence 758

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGTTTTAAACAATGTTGGAAATGAGGAAAAT
GAGCAATATCAACATTTTATCCTGAGGGACAGGGAGTAGAAAACAAGCCAGAGGCTGCTA
GTTACATAGTTCAGTCTTAGGGATGAAGGGATTATGTCTCTCCTCCCTCAGGTACGCGG
GGACTACACTGGTGTCTGACTTTTTTCTAGAGATTTCTCCCTGAAAAATACAAGGGCTG
TTGGTGAGAGCAGACTTGAGGTGATAATAGTTGGCCTCTGGTCTACAAAGATTTCATAAC
TCCTTGAAAGCTTC

Sequence 759

CCCTTTCGAGCGGCCCGCCCGGCGAGGTACTCCGATTGCCTCTCCCATGCTTCTCTGCTTT
CCAAAGAAAAAAGTACCTTGTATAGATCCTGTGAGCTGATTGCAGTGCTCTTAACCTCT
CCATTGTGAGTTGTTTCACTGCTGAGGAGTTAGGTATAAACCAGAGTGGTATTCTCTTTTC
TGTTGTGTTTGGTTTTGCTTACATATTCAGGAGCTGCTCTTACCCCCAGAACATCCGTA
TATATGTTTTTTCTGTTTCTAGATTTAAAAATATCCAGAAGCCTGGCCTCAAGATAGA
TAATATTTTACTTTT

Sequence 760

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTAAAAAAT
ATCCTTNATNAGGNAAAAATTTTNNTTTNAATTAACNGGAAAGTTTNNATAAAAAAGGA
TGTTAAATNGATTNAATGCTNTTTTGNATTNGTNNATANATTTTTTAAATTTTTAA
NCGNGNAATTGGTNNTTTAATNGGGNGTTTTTTTTAA

Sequence 761

Table 1

CCCTTAGCGTGGTCGCGGCCGAGGTACAGATATAAAAAGGCTACTATTCCAAGAACAAAA
TCCTGGAACAAATGTCTATCAAGAAAGCAAAGATAATCTAAACAGCAGCATATTCATAG
GATGACAAACTATTCAACCATTATAAAGAAAACCGAATCAAAGCACTGGCTTATTAGAC
AAGAGTTTCCCAAACATCATGCTAAACAGTAACAGCGAGCTTCCAAATTATGTTGCC
TTTTTTTTTTTTTCCAACTGAAAGGAGGGTGGGGAACAAACGCATCATATGTAA
GCACTGAGTCCAGCCT
Sequence 762
CCCTTCGGCCGCCCGGGCAGGTACGCGGGTATGGTTTTACGAACAAATTTTAAGGAAAA
AAATTATCATGGTTCTAATCTTACATGTTAACATTTCTTGTTATGTAGGGATCAGACTT
GTTATAACATAATTCCACTTTATAATTCAATGAAGAAGAAAGTTTGTCTGATTCTGAGG
TATGTAATATTTCAATTATTATTACCATTGATATTCTCTATATAAAAAATTTACATAT
TGATGTTTTTCAGGTAAAAGCTGTTGTGAACATTATTTTTGTCTAGTGTAGTTAATTTAA
AAAAAAAAAACTG
Sequence 763
CCCTTAGCGTGGTCGCGGCCGAGGTACGCCTAAGGGANGNNNGAACTCATNAAAGAGAC
AAAANGTGCNTTTTTGNTTNNAAAGGCATGCTGTGGTGGTGGGCGCAATAAAATAGTTGG
GGCCCCCGANTGCCANTGACTTGCTTTNTNGTNGGNAACNAAATGGCCCATCANGTTGGA
CNCACCTGNCCANTTCAAAAGACCTTGNCCCCATTCTNTGGGAATGNAAGGGAGNGTTAA
AAATAAAAAAGTGTGACCACTCCCTTGGATGGGTTTAGCCAAACCTTGGGNTCCANGCC
CCTGGAATAATTGGTTTTAAAGGGGGGNGAGNTNGGGATCCAAACCTTGGGGGCCAAA
ATAAGATACAATCCGTANCTTGTNGGGAAANTTCAAATTTAATTGTTCCCCCAAGNA
TTNGAATTANNAAAAAAACCCCAAAATTTGGGGGAAGGNAAAAAANGT
Sequence 764
CGCCAGTGTGATGGGATATCTGCAGAAATTCGCCCTTAGCGGGCCCGCCGGGCAGGTAC
CGCGGGATTCTTTGAGTGGGAATCTCAAAGCAGTTGAGTAGGCAAAAAAANGAACCTN
TTCATTAAGGGATTAATAATGTATAAGGCCAGCACCGTGTAACCTTCGACTTTCAAAGA
ATTTTCCTGGAAANCCATAATTGGTAGGTNATGGGTTTTCAATTTGGTCCGTTNCGCCA
AGGGGGGGTAAAGTTNGAATCCCTTGGGGCNAAGTTCCAACCCANTAAGGCCCTTCCT
NAACNTTTTNGTTTTNNAACCTTTTTTTTTTAANGNCCTTTTTTTTGAATCCCAAAAA
AAAAATTCNTTTTAACCTTTTTTTTAAATAAAGGGGAAGGCCAAGTTTTTTTCAAAA
ACTTCCCCTTAAAAAAATGGNTTNGGAAATTAANTAAATTTAAGGTTCCANGGNTTT
AAAAAAATTTCCACCCCAAGGCCCTTACCNCNCAANGGGGNAATTAACCAAGGGGGA
ACCTTTTTTTNGAA
Sequence 765
CCCTTAGCGTGGTCGCGGCCGAGGTACAGAAGCAATGTTTTTTGAAAGTTTTCTATCTGT
GGNTTGTGAATCCACAGATGCAGAACTCATGGAAACAGTGCCCACTGTATGTCACAATT
TCAGAAAATCAGTATTTTATACAATCANGCTAATAGCCTAATTTGTTGAGCACAGAAAAA
ATACACTGAACCAATTCTGATTATTGCAGAGAAATGATTGGGCAGGATATTGGGAAATAA
GAATGAAGGGCGGANAGAATTTACATGGATTCAATATACTCTCCGTCAGNGAATTTTTG
TT
Sequence 766
CCCTTAGCGTGGTCGCGGCCGAGGTACAGAAGCAATGTTTTTTGAAAGTTTTCTATCTGT
GGTTTGTGAATCCACAGATGCAGAACTCATGGAAACAGTGCCCACTGTATGTCACAATT
TCAGAAAATCAGTATTTTATACAATCAGCTAATAGCCTAATTTGTTGAGCACAGAAAAA
ACACTGAACCAATTCTGATTATTGCAGAGAAATGATTGGGCAGGATATTGGGAAATAGAA
TGAAGGGCGGAAANAATTTACATGGATTCACTACTCTCCGTCAGGAATTTTGTCCCT
TTGATCTTTTTGTGGTTAATGCCTTAATTTATTGGGGCCCCTCTCATANGTTTGGGGG
Sequence 767
CCCTTAGCGTGGTCGCGGCCGAGGTACAATCAAAGGAGTCTAATGGAACCAAGTAGCAAT
GTTCCCGAAAAACAAACAAAAAACCCCAACATTTTGCTGTTTCTTTCCCTCTGTA
TTTGCTAACTTTATCATGACTTTATTCTTAAAGCCTATCACTGGTCTGCTTTTATTAATA
GATTAGTGGAAATTTTACCTGGCCTATTAGCACCTTATAAAGAAATAGATTAAGAGTAG
GAAATATATAGATGAAGATGTACTGTATAGAAAGTTGTGTAAATCAGTATGAAAGTTCAA
TGTTGCTGTTCTTGCTCAGTGGATTTAAAGAAATTGAGTAGTTCCTATGTGGATTTTTT
TTTTTCTTTTCTAACTG
Sequence 768

Table 1

CCCTTTGAGCGGCCGCCCGGGCAGGTACATATACATTATGTAATNNANAAGCGTGCATG
GGGATGAAAAAAATTTTTNNTNTATAATCNGNTACAATATATACATAAAACACCTA
AAACGCAGAGGCTTGCTTGTNTCCACAAATANGTTAAATACCCAAATTAGTAATTAA
ATGGATTGGTGGTTATGGTAGGAACACCAAGACNAAAAAGCCAGGCCGGGACCGTNATTT
TAATTNNGGGCCAGTACCACCACNATATAAAGGCCACCAACCAAAAAAGTCCANANANG
CCAANAAANAAGNCAACCGCCCCAAGTTNAAATNGTTTTGTTGGGGAATTGNCCAGTTA
NTTCCAAAANGGAATTTTTGGTNCCANTTANTTAAGGAACCAATTTAAATAATCCCCC
AGGTTTANGGAACNACCTTNGTTNAAATTAAGGTTTTTTTTTTGGGGTTNACCCCTTC
GGGGGCNCCGCCNGNAACCCANNCCGTCNTTAAAGGGGNGGCCGAAAAAT
Sequence 769

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTATTTTTTTACTAAGGTTTTGTTTTGGAGA
CTTGTGTTGAAATAAAGTGATCCTCATTGAGGATTTAGAAACAAAAGTTATACTCCACATG
CTAGGGATTAGGAAGGCTAATGTGAAGTATGAATTAAGGATGCTTTAG
AATAATCAACTTTTAGGTAATTTGATACTGCTATAATTTCAAGCTTAGAGAAAAGTTGTA
AGAATGGCATAAGGAAGTCCCTATATATCC, TTATCTAGATTCACTAAATGTTCAATTTGT
GCCATTTGTGTTATTCTTTGTCTCATCCTAGCCAGTCAGCCTAACACCACCCAGGGGAT
AAACCAGTAGTCTGATA

Sequence 770

GATATCTGCAGAATTCGCCCTTTGAGCGGCCGCCCGGGCAGGTACCTCTCATTTGTCA
CTTTTCAACACTTCTGCGCAGGCAGGCAGCATAACTGGTCTGCTGGGTGATCCAGACCA
CACTCTGCAACTCTTCTTCTGAGCCAGGCTCCCTACTGTCTTTTCAATTTATGTCAAGG
CAGGGGAAGACCTCAAAGGGCTCTTGATCCAGTCTCACTTCCCAAGAGAGGCACGAGG
CCCTCCAGGATGTGGGGACAGGAACTTGGGGCAAGCCCGGGGCTGTCCAGAAGATCACC
AGGAGGGCTAAATAGTAGAAAGGAAAAGTCTTATTGGTGATATGTTTGCAACTGGGAAA
AAGATAGCCTCCAGTGTGGAGCAAAGATGCTCCTTCTTCAAAGAGGGCAAGGGCAGCTTG
GATTTTGTGCCTTACANGGTCNGTATTATATAATAGAGTCATGCATATTCANTAGGTTTG
GGGAAAAGCTATATATTTATGAAGGGGAGCCAACTACATGGGCAATGGATAAACATA
CATGTAACACATCCATGTTCACTTTAGGGGCA

Sequence 771

GGATATCTGCAGAATTCGCCCTTAGCGTGGTGCAGGCCGAGGTACAAATAAAGTATTCCA
AGGGNNGNAGAAATNGAAAANGANGNCTNNCANCTTGNTNNTTTGGGAAATTGGGATAT
CCTTTGGGGAAATGTAGTAATCAGTATATTCTGGGNAAAACATTAGTTAGAAGAAATTGAA
NTAAATAAAATTTCCATTGAATTTGGAATATGTTGTCATTCTCCCTGTAACTAATGCT
ATCAANGATAAAGTANGAAATACCACATTTAGNAAACAAGCTTGGAAAGTAGNACAAGGT
CCTTCATTAGNGCCNTAGCCTTGGNAAACCCCTTAATAANCCTATNTAAATAAAATTGAAA
ANTTTTTAAATTTATNACTCCTGG

Sequence 772

TGCAGAATTCGCCCTTAGCGTGGTGCAGGCCGAGGTACCACCAATAATGAGGCCACAT
GTGTATGCTAAAAAAAAGTGNTTTNNTNTTCTTGGGCCTACAAGAACATGTTTCTG
TCCGCTAAGGAGAAANTNAAGAAAAACAATGGCCCCCTTNCCTTCCCNATNAANCCCAAA
ANCCTTAAACNTCACAGGGGGANGTTGNAATTTTAAGGAANTCCACCCCTTTNTNGGGN
NNCANTTTTTTCCCCCCCCAANAACCAACNCCCCATTTACCTCCTTNGTTAAGAAA
TTTTCCNTTGAATTNAATNGCCNACCTTCTTTTAAANAAGGNANAAGCCCTNNACCNA
AGGCTTTCTTTTTCCCCCAATTTNCCCCCTTNATTCTNTTGGAAAAANGGCCNAAC
GGGGGAAACCCCCACCTTTGGGCCNTTTTTGGNGGGTCCCAAGGGGGAAAAAACC
AAGGGGCCNATTANCCNAAAACCAATTCACANGGANATTGTTTGGNAATTTTAATTA
AAAAAATTNGGGGGCCCNACCCATAATTTTCTTAAAAAAAANGGTAAAA

Sequence 773

CCCTTAGCGTGGTGCAGGCCGAGGTACTATCATCCCCCAAGGCCTTTTACAGTCTGAAAT
ATCAAAATTGAAAGCAAAAATAGGATGACCAAGGACTACTATTTNACTCTCTTTTTCAGN
AACNTCNTACAAATATGTATGAAAACCTAAAATATCCACTNTATGGGATCATCANNGGGGG
GAANNTAAANTGTTGCCNTGTTTTNGNAAANGGGGCATTANGATGATTTGGGATGTN
CNCANGNCCTGGGGCANTTTTATNTCAAGGATGNAAGGGGNTNNCATTAACTGAACCA
AGTGGANTGACANGNGTCTTCNCNTTATAAATACCAANGGGGCCGNGTTNTGGCNAACCC
CANGCCACCCCAATTGGAACCTTATGGGGGGGCTTNGGCCNTTTTTTANAAAAAACCA
AAAAATTTTTTCTTAAAGGGGGAACCTTTACCCGGNCCTTCTTNTTTTGGGGGG

Table 1

Sequence 774

CCCTTTGAGCGGCCGNC CGGCGAGGTACATATACATTATGTAATTA AAAAGCGTGCATG
TGATGTATTAAAAATAATGGTATATAAAACAAAATTACAATTATATACCAAATAAAAC
CACNCTAAACGCCANNAGGGCATGCTTGTTTATCCACCATATTAGNTAATAACCCAAA
TAGATAATTAANTGGAATTGGGTG

Sequence 775

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTT GAGAGGGGTCATC
CTCCAATCATTAACTACTTCTAATCTTCACTGCTACACAGAAGTTTCCAATATTAGCAA
CAGATGGCTTTGCTTTTACCTTATAGATGAGGCCAAAGCACCAGGTAGGTGGAAGGTTCT
TGATCGGTTTGAACCCCNACAGCGCGCCAAC

Sequence 776

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTT TGGNCTGCC
GTGGAGAGGATGGATGGGAGGGGGAAGAACGAGAGCTTTGTTTAGAGGCTGCTGTANTAA
TCCAGGTAAAGGCTTTTAATCATGTCTGAACAATGATCAGCAATGGCAATGGANATGAC
AGAACANAATTAANAAGGAATAAAAAAGGCTTCTGACTACTTGGATGTGGGTGANG

Sequence 777

CCCTTAGCGTGGTCGCGGCCGAGGTACTGCAAGCCAAATGCAATGAACAAACCAAGGTTA
TTGATAATTTTACATCACAGCTCAAGGCTACTGAAGAAAAGCTCTTTGGATCTTGNATGC
ACTTCGGGAAAAGCCAGTTTCCGTAAGGGTAAATCGGNAAANTGAAAGNAAAACCTTT
AAGACCAGNCAGCTTTGAAGGTCAGCCTTGAGTAANACAGNAATTTAATACCAATTTTAA
GAAGGAATTTGGAANAAANGAAAATGGCCTTGAAANAGGTTAGGCCAAAGGGCCTTAGG
GTTAAGTTCNCTTTAACCCCAAGGAAAGGAAGGCCTTNCCCATGGGGGGGGGAAAGNAAAG
NANGNCCTTNA AAAAGGCCCTTTTAACCTTAAACCCCTTTTTTCAAGGGGGGAAAAAAA
AATTNTTTGGAAAGGTTNGNAAAGGGTCCCANGGTTTCCANAAGGTTNGGAAAAAGTAA
AGGAACCTTTTTTGGGGGATAAAAAAAGGGAACCCCTTCCCAAGTANTTTTTTTTGGG
AAAAAAGG

Sequence 778

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGTTATCAGGATAATACTAGCTTCACAGAAGA
AGCTGGGAAGTATTCCCTCCTCTTCTATTTTTTGGGAGGACTATGTGAAGAACTGGTNT
TAATAAAAACTCCTTATTAAGGAAATTTTTAACATACCAAAAAATAGTAAGAATAGTAT
CATGAGTTCCTGTGTGTATTCCCGCCTAACTTCAATAATTATCAATAGTCCACCATCT
TATTTTACTTATACTTCCCTCCCAACACCTTACTCTTTGGCGGGGGCTGAAATTATT
TTAAAGTAAATCCCAAGACATATCATTACCTTTAAATACTTCAAATGTATATCTTCTAA
CAGGATAAAGGACTTTTTTTT

Sequence 779

CCCTTAGCGTGGTCGCGGCCGAGGTACTACGAAGCTGCAGATCATTACGCTGATATGAAT
GACTGCTTGAAAGAACAAATGACTCTGGCACAGCCACTGCTTTTCAACCAGGAAAGCAGTT
TTTCACAGAATGGCTTTGATTTTACTTTGCACACCATTGAGAGAATAAAAAAGAAATCT
AAAAGTTAGTCTTAGAGCATACAAACATTCTATATACTATTTTCATCAACTTTATGTGATA
ATGATATATAATTTATATACTGAAATTATTTTCAGGATCCACTTACTGTGCTTAAACC
CGAAAGTGAATGATTAAAGAGGCAATGGAATTATCTAATGTATCTTTTATAAATTAAGAA
ATCAA

Sequence 780

CCCTTTGAGCGGCCGCGCCGCGGCGAGGTACAGACAGTGTGATGGATGATGCTGCTGGTTGT
AAATTTTCATCGTGTGTCTAATTTTTTTTCTGTATGAATGGGGTAAAAACAAACANN
AACTTTTTTTAGGAAGATTGTAATTTTGCNTGTCTATGTTTTTNGTAGGNAATGAGGGGN
ACTCGTTTGNAGTCTTACCTAACNCATCCCTGNGNAGTTTNTGAAGTTTTGGAAAGNCC
ATTGAAANNATTGTGTGCCCCCAATGNCCCTTGACCNGCCTTNACAGTCCGNCNCTT
NNGGATTCTTGCAACCGTTGTC

Sequence 781

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTT TGGCGGATGAG
TCTTTTAAAGAAAAACACACGTGCAACAGTATCAANACACATTTTTTNGCAATCCTGAC
AGCAGCTGAACCTCAGTTCTTACCTTGGGGGGTGGCCTGTACATATCAAAATCTATCAA
ATTGGACCCTCAACTATGCATTTTTCTGNGTGCAAGTTATATCTCAATTACAAACAAACA
AAAACACAAAACCTATGGTTAACCCAAAACCTAAACTATNACCAAGAAATATCAATTGG
GGTTATGGCATGACCATCTCCCAAGAAAAATAAATGCTTGACAGATTCTGAGCGGGA

Table 1

Sequence 782

CCCTTTGAGCGGCCGCCGGGCGAGGTACAAATAAATGAGTTTGCAGTGAATTGGGCCTT
CAAATTACCTCAAGTGACAGATAGTAAGAAAAGCTTNTTTGAGCAGGTGGAGGTCACTGA
ATCCCTACTATGCACTTATCAAGATTTTACTTACTTTAATTTACTGGAATTTGATTTTT
TAAAAATGACTACACTGTAACAAGGGAAGGATCTGGGTTTTTTGTTGTTTTATTCTT
GTTTTTTTTAAGTAGTTCAAATCTGAACTGTGATTTAAAAATTTTTACAGTCAAGCA
TTCTGATTTTGAACATAACTCCCTTCCCTTCTGTGTAACAAAGGTCTCTCTGTTATCTC
TTAAATTT

Sequence 783

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCTACTGTCTTTGCCATGAACTTTATAACA
TGGCTCTCCAGGTGTTGAATCTGGTGCCCTGTCAACCCTGTGCTCAGGGAACACATGGCCG
CAATCAGCATGTGAGGCGCAGAGGGAGGGCAAGCTCCCTTGTGATTTGAGGTATCAG
CTGACTCAAGTCTCTCTCCCTTCTCTCTTATTCTCATGCTACCTNTCCCAACCATTGTC
TTAATCTCCCTGGCCAGGATGCCCTGCCATATTAATGGAGAGGAGGCAGTTCTAAATGG
CTTGACTTTGGTTGAAGTCTCAACTCAGGAAGCTCTGAAATTAATCCACCC

Sequence 784

CCCTTTGAGCGGCCGCCGGGCGAGGTACTACTCGATTGTCAACGTCAAGGAGTCGCAGG
TCGCCTGGTTCTAGGAATAATGGGGGAAGTATGTAGGAAGTTGAAGATTAGTCCGCCGTA
TTTCGGGTGTACCCCTGGGAGGTGCCAGTCATTGAATAGATAAGGCTGTGCCTACAGGACT
TCTCTTTAGTCANGGCATGCTTTATTAGTGAGGAGAAAACAATTCTTAGAAGTCTTAAA
TAT

Sequence 785

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGAGGATATGTGTGCATTACATGCAACCACTA
CACCATTTAATATCTGGGGTGTGAGTATCCGTGGGTTTTTGGNATCCGTGGGGGTCTCGG
AACCAATTTCTCCTGGATACTGAGGGATGACTGGATTACTGTGTGTTTGTGTGCTTGTTT
TTAAGCTTCAAAAGATTATGTGATCTAGGAGTTGTTAGATTTTATTATTGGTCTTAAAG
ATAAGCTTANATGTTGTTACTTTTTTGGAGTTTTTAGTTTACAGTGATTTTCATGAATCGG
GCAGCTTCANACCACAGGAGACATNAAGCAGGTTTNAATTTTCAANGAAAGGCNTTTACA
AGGCAAAAATATTTGATTTGGTTTGA

Sequence 786

TGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTAAAACTAAAACTGAGCAGTTTAAA
ACATTCATTTAAAGGGATATCTAATGTGTTTATTATTAACATAAATAATGTTTTTATGAA
AAATGTAACCTTNGTTTTCCAAAACAAAATGTTTAGGGCAAGAGTAACATTATTTTACA
TTATTGCATCTCAGTTGAAAAATAAATGGCAACAAAATTTCTTATATCTGCTTCTGCAGT
TAATCTGNTCATTGTTTGGTTTGAANTATATTGAAGGAAATCTGTTCTCCACACAGT
TTGTGTAGTGGGAAAAAGGGGGGAC

Sequence 787

CCCTTTGAGCGGCCGCCGGGCGAGGTACGCGGGATTCTGTTAAGCAGGCATTGCTTTG
CCCTGGAGCAGCTATTTTAAGCCATCTCANATTCTGTCTAAAGGGGTTTTTTGGGAAGA
CGTTTTTCTTTATCGCCCTGAGAAAGGATCTACCCCGAGAGGAGNAATCTGTAGNACAT
TCTTTCCTACTTNTTACTTTTATTTAGGCTNTTCTTCCCTNCAATTTCAATTTTCTGT
ATTACCACCTTTTTTCCCTTTTTTTGGGGGGGAAGA

Sequence 788

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGCAGGCCTCCTACACCTACCTCTCTCTGGGC
TTNTATTTGACCGCGATGATGTTGGCATCTGGAAGGCGGGAGCCACTTCTTCCGTGAA
ACTTGGCCGTAGGGAGTAAGTCGCCGAGGGTCTNCNAGNCGTTCTTTNCTTGAAGGATGC
ANAANACCCATGGCGTTGNGCGGACCGCGCNTCTCTTTCCATNGGAACATTCAAAGGNN
AGNCNCAAGTTTTGNATAGTANTGTAANTTTGGGNGGGTTAAAAACCTNCCCAANGNAC
CGGCCCTATTGNAAAAAGNCCTTGNCTCCAANTGNGGCCCTTGGGGTAAGTNAAAA
AAAAAGTCCCTTGTAAANCCCCAAGGGGCCCTTTTTTTGGGGGAATTTCC

Sequence 789

CCCTTTGAGCGGCCGCCGGGCGAGGTACTTTAATTTCTTTATAATTTGTTTCAGCTATTT
AAAAAGATAATCCACAATCTCTACCGCCATTAGAGCACAGGAAAAAAAATTCAAAAAT
AAAGGAAAAACATGGCTCATATATCTACAGAAGTCACAAAAATACTATAGGGCACATATA
CCCAGGCCCTCAGCGGTGGGAAGAAAAACATAACCACCGGGCAAAATGTTTGAACACTGA
AGACGGGAATTTTTTAGGGCC

Table 1

Sequence 790

CCCTTAGCGTGGTCCGNNGCCCGAGGTACTCAAGTCGCCCTTATGGAGCCCTTGATTCAG
GCTTCAATAGTGTGGACAGTGGTGATAAGAGATGGTCAGGGAATGAAGTAAGTGTTTTT
ATGTTCCGTGTGTTATAACACCTGATTAAGAGAAAACAGAATGATGAAAATGAAAAGCCG
TCTTAAGTGGATTCAAGTTTCTCACTACATAAAATACAGAAAAGTCAAGGTGGAGGCAAG
ATTCCCACCTCTCCAGCAGAATTGGCATTCTGCGTCTTACC GGCTTTCTGTACGTGG
ATTCCGCGCTGTTTCTCATTGCCTCATGGAAATAGTTTCATATCATAGAAAGGCAAAACA
GGAGCTGAGCCAGTTTGAAACTGAACCTACAATCTGAGGTGGGGGTAATCTCGAGCAGA
AGTGCTAGATGGTGAAAAACAAGTAGGACTTTCCGGCTGATGGGTAGAAACAAGGACCTT
NGTAAAGAATATTATGTGCTCAAAAAGGAATAACTTCTGGCTAATTCTTGCCTTTTTCT
TCGTTTTTAAAATTAATTGGATATTATGTTTTCTGCTCTTAAAAATTACTNNGTNCACAG
AAGTCTACCAAAAAAAAAAAAAAAAAAAAAA

Sequence 791

GATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTAATCTTTCTCT
TTCCTAGACCGATTCTAGTTTGTTCCTTCCCTTCTCGGAAACCCCAAGTTTGTGGAT
GCTGCAGACACTCTGTGCCCCCTGCATGCTGGGTGCCTGGCCAGCTGCCAGGGCATAAA
GACAGAGACGATGTGGCCTTTGTCTTAAGAATGAGGTTTGAAAGCCTCAGTTCTTCCAT
GTTAGGTGATTNCTTGACGCTCTTGGTATCTGCAGAAATAGTGTGAATGCTTAAAAATA
TTAACAGCTTTATATCATCAAAGTTTAAACAGTACCTGCCCGGGCGGNCCTCGAAAG
GG

Sequence 792

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGA
GCTGAAGGCCACAGTAGCTAGCTAAAGGCCACACCACTGAACACTAAAACTTAACCTTTA
CTGGCTACTTTGTANATAACATTCACAGCTCACCATGAATGCAGCTGCAGTCAACTAACA
NATATGAAGTTACCACTGTATTACATGGTTATATTAGGGACTGCTTNTACCTACTGGAGG
CTGGGGAGGAATGTAAACAGCACAAGCCATAATGAAGTTTATATACAGGCTTAATATAAA
NAAACCTTAGAATGAACCAACACAATTAT

Sequence 793

TTTTTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCATGCAGGGATAGCTG
AGTCTTCATCCTCCTCAGCCCCATCTGTTCACTGCACTGAACACCAGCTGCTCTCTTCC
TCTCTGGCTCCCATGGCAGCCATGGTCTGTTGAGAGAGAAGAGGATTGCCTGTTCCCTC
TTAAGGGAACCTCCGTTTGTCTTCTGGAACCA

Sequence 794

CCCTTTCGAGCGGCCCGGCCGAGGTACGAACCTAAATTTATGATGAATATCTTTGAT
AATGAGAAATCCTGAGAGATTTTACTTTCAATTTTATTTTAAATTTGAAAGAGCATATGAC
ATCTGGAATATTTTAAACATATAGCCATACTGTTTATTTAAATTTGTAATAATAGAAATA
GAGTAATCTACTGTGGATTTTAAATTTTAAATCATATTAAAGTTTAACTGGATTTTATT
TTAGGACTAAATATTTAGGACTAAATAAAATTTTATTAATTAATTTAGGACTTTTGGGA
AAAGATATTTTCAAGATTCACTGCATATCAAAAAGCGAACAACAGAGGCTTCATCTTTT
GAAAACCTTCATTGGCTAAAAGTGCTTCTGTAATACTGATAGTGAAGAACTGTTTTTAC
ATCCCGAGATGTGTTTGATG

Sequence 795

CCCTTCGAGCGGCCCGGCCGAGGTACCTAGGTGATCTTTGGCTTCTCAAGTTTTTG
CACCACCTCAGAATCATTTATATACCACCTTTGGCAAACATGCCAGACCTGCAGTAGACT
GAAGGAAGCTCTCCAAGCTCTAAATTGATTAATTTATAGTTCTAGAAAGAAAGAGATT
ACATGTTTATCTTTTGTACAGAAGAACTTTGAATAGCAGTTGAAAATTTGGCAGGGT
GGACCACCTAACTTGACAGTGTATTATTGTGTCTGTTTTGAAGGAATAAAATGGAATTAT
TTATAAGTTTTTCAATTTGTATTAGAGA

Sequence 796

CCCTTAGCGTGGTCGCGGCCGAGGTACACTATCTGACCTAATCCTCAACACAACTAAGG
CAGGAGACACAGGGCTGCAAGGACATTTGCTGCCATCCAATTTGTGCCAGCCTGTTTTAT
CAATCTGAACCTATATTTTAAAGACCTCACGGCATCACTGAAAGATGAGTATTATTA
GTTGGAAATTTAGGGATGAGAAAAGTACCCTCAGGGAGAATAACTGACTTGCCCCGGCT
CCAACAGTAAGTGGCCCTGCTGGGATTTGAACCCAGGTGTGTCTGACCCCGAAGCCTGAT
CTGACCTCTGACAGTCGTGATAAAAAATA

Sequence 797

Table 1

CCCTTGGCCGCCCGGGCAGGTACCGAAAAATGATTTTGTTATATATATTTACCAATAA
AAAAGTTTTAAATTTATTATAGGTGACACTGTTTGCTCACTGTAGGTCAGGTATTTTTG
GTTTTTTTTCTCTTTATTTTATTTTGACCAATGGATTCACGTACCAGGTGATTTTT
AACAGCTTTATTGAGATATATACACGTGCCATAAAATTCACCCATTTAAAGCACACAG
TTAAATGTTTTTAGTATAGAGTTCTGCACCTCTTATGACAATAAATGTTAGAATATTT
CATCACTCAAAAAGAAACCAGTATCCATTAGCA
Sequence 798
CCCTTTCGAGCGGCCCGGGCAGGTACAATTTTTATGTTTACAGCTGTAACCCCTGAG
TTATCAAGAGATGGAACATTAGATATGATTTATTCCTATTTAAGATAATAGGACATTGCT
TGATTACATTTTCAGAAGATATTTATCCAAAGAAATTTTTTTTTTAATCTAAAGGAAAG
GTTTTGATTCTTATGAGAAAAGAATGAGATTTCTTAACTGGAAATTTGATTTATGTCCT
ACAGTCCATTGTGTAGTGATGTTGGATCAATCAGGTATCNCCTAGGGTGTCTGNAGAAGTA
TCTATATATTGCTTTTTAAGTTCTTAT
Sequence 799
CCCTTTCGAGCGGCCCGGGCAGGTACCATGTAGCTCTACTTTTCCATATACAGAGTT
GTTTCCTAGCTTTCTGCTAATCTAACTGGATTCTCTTCCCCATTTCTCTATTACTAGA
TTATAATGCACATCACATAATAAAAGCTTAAAAATGGGCTTTCACAGTTACTGTTTTCTT
TTTAAATAATTGTGAGAGAGCTTTTGCATCATTTATTATCTAATCATGATTCAAGTGACT
AGGCTGTAGCACCCAAAGAACCTTGCCCTAAAACAGTTTATTTTACCCAATAATACTACTT
TGCTTCTTACTTAAAAATGTCCCGTGCTTAACCTTTTGCTCTTATTTTGATTTAAGC
ACTTGACC
Sequence 800
CCCTTAGCGTGGTCGCGGCCGAGGTACTNTCTATTTTTTAAACAGGCTCCCTCAAGATATT
AATGTGACAAACTTACATAGCCAGCTGTAAGATAATTCTTTCAAATGCGCAAGTAACCTA
ACAGATTTGTGCATGTCAGCCAGTAATTTCAACATACATTATAAATATGGCCAATTTTCC
CAAATCTAAATGAATGGAGATAAAATGCTATATAATAAATATGTTAGAGCACCTTTCTT
GAGAACTTNTAAAAGGAAAAAATAAAAGACATAATTATACTCACACCACAGTAAACCC
TCTGGTCACCTGTTTTGGGTTGTGGGAATGCCCGCAGCAGCCGAGAGACCTATATT
Sequence 801
GATGGATATCTGCANAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGATTATTCTCC
TGCTTAGGGAGAAGCGGAAGAAGGCCCTTGGAAGTGTGAGTTTGCATTCCAAGTGTCTA
ATTCAACATAGATCCTAATTCCTTAAATGCTTGTAAATAGAAATCTCGTGAAGTGTATT
GGTTTTTGTCAAGCAATCTGTTTGGGGAAGTGTGAGCAACTGGGGCACTGCTGGCTAGGGT
GAAGTTTATTTAATTTGGTTTTATGACATTCTTCATCTTGAAATGGGGTTTTCAAATAT
TGCTTTCCCAAGCATCATTACTTATTGCTGTTTTTA
Sequence 802
CCCTTTGAGCGGCCCGGGCAGGTACGATAGGCATGCAATTAAGAAGACCTGCCTCAA
ACATTTTCTGTGTGACCTGAGGCANGTCCTTTTATAGCTATAAACTAGGGACAATTTTG
CTGTCAATTTTTCTACAAATGTCACAAAGAACAATTTGAGCCTGTGCTGTGAAAGAAC
TTAGCAAATGAAAGCATCCTAGGGAGTGTTTTAGATATCGATATTTTATCCAATTAAGT
TTTCAAAATGAGTTTATTTGCTCACTGAACTGAAGTACCTCNGGCGGGACCACNCTAAG
GG
Sequence 803
CCCTTTCGAGCGGCCCGGGCAGGTACGCGGGGGGTTTCAAGTGTCTCTTACTTTTAAAC
CAGTGAAATTGACCTGCCCGTGAAGAGGCGGGCATGACACAGCAAGACNAGAAGACCCTA
TGGAGCTTTAATTTATTAATGCAAAACAGTACGCTTGGGAGTCTCAGCAGGGGGATCATT
CACAGTGAGGACAGACACAGGTGAACCTATGGGTGCTGGAACAAAAGTTATCCTACACCT
GAAAGAAGACCANACTGAGTNCCTNCGCCNGACCACGCTAAGGGCGAATTCATCACAC
TTGGCGGC
Sequence 804
CCCTTAGCGTGGTCGCGGCCCGAGGTACCTTGCACAGTGCCTTTTAAATTCATTTTGCTG
GACAGTTGGCAGGCTCTTCACTTGAGAGGCTTATATCTTAACGATTTAGAATGGAGAGT
TTGGCTCAAGCTCCCTGTGTGTGGTCTGTGCTTTCTATACTTTTATCTTGGTATCCAG
AGTCTGGAGGCTTCTCTTTTAAAAATTGCTAGGCTCCTGCCAAATGTTATAATTTGGGG
ATGTGAGTTCACTAAGAAATCAACTGACAAGAGGCAGATTAATAGGAGAAATGACATCGA
AATTTATTAGCATGCAGGGGGAAAAAATTGATTACCAAATATCCAGTAGGGTAGAGATG

Table 1

CTTATATACCCACCTCTTAAGAGAGAGGGAAAGTGGATGATTTTAGGGGAATAGTAAAT
ACTTTTTATGGGAACCTCACTGGGCTTGAAGAATATAACAAAGGCCTGGGACAAAGTCTGT
TGGGCCCACCAGAACAAGACAGTGGTTTATGACAAAAGTCTGTTGAGAAATGATTGAACA
GACTTCAATCTTTCTTCTTGAATATGATTCAAGTTNAAGGAAAAGTAGGGGAAGGGACTA
GAGGGAATNGT

Sequence 805

CCCTTCGAGCGGCCGCCGGGCGAGGTCCGGGCGAGGTACTATTACTAGGTTCAATTGTTTCC
AGAGGGGTGAAACGGGGCTTTGGAGAGGTTAAATAACTTGCCAGGGTCACACAGCTATT
AAGTGGTAAAGCTGGGATTTACATGAGCCCAGACAAAGAACCAAGAGCTAAGCTATTC
TCTTGTAAATACCTCCAACATAGGAGGCAAGAAGTGAGGTATTATACAGGTTGAGGAGATA
AAGGGGAGAGAGGCCTGCAGTGCTAACAGGAGGAGCTGGGATTCATCCTGGCTTGTCTG
ATAGGTCAGTTAGTCTTAGAGATACCCATGAGGTCACCTACTCAAAATGGGGCTCAGAGT
AGCCTTGTCCCATTCCTGTCCAGTGGGCGCAGCTACAGTCTTCTGGCCTGGAGTGACTG
GAGGCTGTCCCCACGTCCCACTTCAGTGAGGCATTTCATGTGCACCCAACACACTTTCTAG
CTTTATTTGCCCTGGAGGGGAAGATTCTCCAGAACCTTGTTAAGATGCACAGTGTGGTCT
CGGACTGGCAGTGTGGCCTCGGCAGTCCCTGGG

Sequence 806

CCCTTAGCGTGGTTCGCGGCCGAGGTACACATATATACACACATATATAGATATATACACC
CACATATATATTTGCTGACATTTAATGTGAAGTTTTAGTCTGGGATATAAAATGGAATG
TATGACATCCTCAAATGTCTGAATACTGTTCACTCCTATGTTTACATTTAATTTTCCAA
AGCAAAACATTTCAAGTTGAGGATTTTATTAGAAAATAAATAATCATTTAGCCATATCTAG
AAACCAGAATAAACAAATGCCATAAAGCCTATAGGAAAATGCAGGTCAGATTCATAAATAT
TCATGTGTTTACTTTAGTACAGGGAGGAATTTGAAGTAGATAGAAACCGACCTGGATTA
CTCCGGTCTGAACCTCAGATCACGTAGGGACTTTAATCGTTGAACAAACGAACCTTAATA
GCGGCTGCACCATCGGGATGTCCTGATCCAACATCGAGGGTCGTAACCCCTATTGGT

Sequence 807

CCCTTCGAGCGGCCGCCGGGCAAATTCCTATGATGTCAGACCACTGGAGTTTCAGGGG
GCAACACCCCATACCGTCCCGCTGCAGAAGAGCATCANANGTTCAGAAGAATGCAAAGG
ATCTCAGTGGGAACGCGGACAGGAGAGCCCCAAACCAACACATGCTAGGGCTCTCTAGGC
CCTTCAGGCTAGATCTTGACGAGAGAAGAGTAAAGATCTTTCTGAGGTTGGTGCAACTG
AGGAAACGAAAGTTTCGGCCTCTGCTGTCAGATCTATGAAAGGAAAGAACTGTGAACCTG
TCCCCCTTTGTTTTCTTTGACTTAAACAAAAGAAAATCACTGGAACAAAGTCTTAAAGT
AATAACAGAAATGTCAGAAAAGTTGAACATCTTATGGGCACATGCGGTGAGTTACGCTAA
CTTATAGCATCCACTGAGATTAGCCGCATAGGATCTTCCATGTTAGAGCTAAAAGGA

Sequence 808

CCCTTAGCGTGGTTCGCGGCCGAGGTACTATCCCTACCTATAAGGCATTTATAATGTGCT
GGGCATTGTGACACTTTTCATATATTATCTCATGAAATCCTCAATAATTCTGAAGGTA
GCTGGTATTTTATCTCCACTTTACAATTCTGAGGCTTACAGAAGTTAATTCAGTGGCCC
AGGGTCACACAGTTTACAAGTGCCACATTGGTGAATATAAAGTAGCAACTTCTAAGTTTC
ACTCTCCCACTTCCCTAGTTATTTTCTAAGGCATGAATGTCTGGGAAATAGCATGCATC
AGATTTTCCACCTCTTTAAACTCTTCAGTTTCATATAATTTAAGGGTGTGACTATTCATA
GATACCTTTGAGCTAATCTTCTGGGAGCCAATGTAACCGCAATGCACACTGCAAAACAAT
GCACGCTTNTCTGTAAATTAAAAATGCCAACCCGAGCTTTGGGAAAAGCCCATCTTTTG
ATATGAACAATTAGGGCAGTTAAGTTTGAAGTNAAGAAAGTCCACTGGTCTGCTTT
T

Sequence 809

CCCTTCGAGCGGCCGCCGGGCGAGGTACTTTTTCTTTCTTTTTTTTTTTTTTTGGAA
GAATATTGCATACCTATTAGAAAAGTCTTTTAAACAATTAAATTTGAAAAATGACTGACAA
ACTTACACTATTTGATTTAAATAAAATAAATGGTCACATGATAACAATCTCCTGATT
GATATGCTTTATTTAACCAGGTTCTCAAACCATGGATGTGAAAACCAAATTTTACAATG
CANAGGTAAGTGTTGAGTGTTAATGGGATTTTCATATTAACATTAAGATCGTATTTGAC
TAAAAATCTCTTATATACATTTCTAATACTGAAGCAAATCGCCAACGTGACTGTAAATTA
TTTGAAAAATCACAATTTTCAAGTTAAATTTGAATAATTTTATTATAGGTCTCATAATCT
TTTTAGCTTACATGGAATCAATGTGTCTTGAATTTTATTCTCGGTAATTTTATAAGGCC
TTCATCTCCTTTTCGGTTAAATGATTGCCCTCTCATTCCATTTAATGGNGGTTGTACACT
AGCAATCTGTTGGAATATTTACATGTGGGTTCCGGATTTTCCAAAAATTGGAATTANTAG

Table 1

AACCTACCGCTGCAAAATAGATTAATATTCACATGGGAAAAATCCTGGNCAAGGGGAANT
TTCNNCATTAAATTNTTNCAGGGGAGTCCGGTTGGCCANCCAGAANTAAGGTNCTGGGT
TNGGGGGAATGGCTTAAAGCCCTTGGGAAAAACAAATTGGCCAAAAANGGGAGTTACCT
TTTAATTGAANAANTTTTTTTTACCCTNAAAAANGGGATAAAATGNACTTGNCNAAAA
AAAAAA

Sequence 810

CCCTTAGCGGCCGCCGGGCAGGTACTCCATTTCTTTTATTCATATTATTTACCAAAT
AATATTCCTACTGTGTAGATCTATCACATTTCTTTAGCAGTTTATCAGCTGGTGGACAAT
TTGGCTGTTTCCATTTTTTGGCTGTTATGAATAATGCTGCTATGAGTCATAGAAACCATT
CCTCTTACTCAAGAAACAGGTTCTCCAGAACTAAGCTAAACTTGTTTGAAATGTAAAT
CTCAGGTATTCTCAGTATAGACCTATAGATTCACTTAGCTGGTGGGGTCCACCCAACTTC
TTTTAACAGTCCTCCAGTGGATTCTGATGCAATGCTAACATTTGTGAACACTGTCAAAA
TCAAAATGGAGTCACCTGTGTTTAAAAATCCTGACAAATAAAGCCAGGGACAGCTATGAA
GAGAGGGTTCTCATGCATCAATGCCTGATTAACAAAACTATCCCAATGACTCTGCAAA
AACCC

Sequence 811

CCCTTAGCGTGGTCCGCGCCGAGGTACAATCATTAAACTATGTTGTAATACTGTTTGTCT
TTTGATCCATTCTGGCGTGTCTCCATACACTTCACTAATTTTGATATACCTGTTTTAT
ACCAATATAATGCTGCTGTACGTAGAAGCTGTAGTCACCATATCCTCTATTTGTTCA
ATTATTTTTTCATCTTCTGGCACACTAGGATCTATAACAATGACAATATCTTCAAAGCCA
TTATTATTCAGCTTAATGAAGGAAGTATTTGACTGGTGCAGCAGGCACAGAACTAAGAGG
AAAACAAAACCTCTGAATAACCCCATTTGCTCTCTAGTTATTCCTGGCTCAAATGTTG
GTTGTTCCCGCGTCTGCCCCGGCGGCCGCTCGAAGGGCGAATTCAGCACACTGGCG
GGCGTTACTAGGTGGATCCGAGCTCGGAACCAA

Sequence 812

CCCTTAGCGTGGTCCGCGCCGAGGTACCTAAGAGTTATTAATACTATTTAGTAAAAAA
AAAAATTTAATAAACCTGTGTGATCCCATTGTAACAGAAAGGCTGATGTTTTCTGTTGT
GAAATACAAATGCAAGGAAAAAATCATTCTTTGTTTCAAAGGATGCATTTCTCCATAA
AGAATAATTTGATTTATTTTAAGGGTTTATTTAACTTATACATCANCCTATNTAAAA
TACATTTCAAATGATCTGTGCTCTTAAATTACCAAAAGCAA

Sequence 813

CCCTTGAGCGGCCGCCGGGCAGGTACATGTGCATAAGAGGGAATGCTTCCCTACATTAC
TCCAGAATACAAAGCTTCTTTCTGCCTTTCTCATCCACATAATGGAAGACACTTCTTGGG
TGAAATACTCCACANTTATTTAGTTCTCACTGGTGAAGTCTGAATATAAGCTCTATGAGA
GCAGGGACCTTGTGAGTCTTATTCACAATATCCCAGCCTCTAGAACAAGGCTGGCACAT
AGTAGATGCACAAAAGGTGTTTGTGAATGAATGGATGACTGAGTCTGTGTGGGGTAATG
ATAGGGCTAAGGATGGGACTCTAAACTCAGGTTTCTCTGTGGGTTTCACAGTTTACTGG
TCTTAAGAGGAGAGTTTCTAAACTTGCCTTATGATAAAAAACCACCTCAGCATTTGNTA
AAAATTACCCATTCTGTAGATTCTGAGTCAGTGAGCTGAAGTGGAGCTGATGAATCCT
Sequence 814

CCCTTAGCGTGGTCCGCGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTNGNTNTT
TTNNCA
ANNATTAATAAAAAATTATTTTACTACAAACAGANAAACGAATTAACCTANNANCCT
AANATACTTTNTGGAATTGAAATGATACATTATATATACCTATNANGATAATNGNNTATA
NCGNNNCTAAACTACAAATTAGTCATAAAAAANGACTTNTGTNCTATATCAATTA AAACT
GGTATTA AAAATTGANTATNATAAGACAATA

Sequence 815

CCCTTTGAGCGGCCGCCGGGCAGGTACAAGTATTATGTATCCATAAAAAATTA AAAAAT
CTTTAAAAATGCATATGGGGGTCAGTAGGTAAAAAGAAAAGAGAACCAAGAGAGCTGCAGC
CGGGGAGCACAGCTTGCTTTAAACATGAGATCCAGCTCAGTGATCATGCGGGGGAAAAGG
CCCGGCATTGCTGGAACCTCTAATATTTAAAAAGATGATGAAACTTGAAATTTTATATT
TAATCTTCTCATTTTTAAGTGTTGGCAATGTATTGAAGACTTTGAAGCCTCTCTGCTGGT
CAAACAAGATGTATCTGTAGGCTGGATTAGTCCACAG

Sequence 816

CCCTTAGCGTGGTCCGCGCCGAGGTACAAGTATTGTAATAGCTATTGGTCTTCAAGTGGGTTT
AGATTTGGTGACATCAGTTTGATATTCTCTTAAAGGAAATAAATATTCAAGAACTGATTA

Table 1

TGTTCTAACATGATTATATTCATGGTGTACATAGGCCTCAATTTTTTACAGAAAGATT
TTTGGAACAGGACTGTGAAGTGAGGCTTTTTAAAAATTATTTATAAGCAGAGAACACA
GCCTGATAACTTAGTCAAGGATATACTGTCTGTCTCACTACTTTGGACTTATATGGCTTC
AGATTAAGTCATCCAAGAAACATACAT

Sequence 817

GATATCTGCAGAAATTCGCCCTTAGCGTGGTTCGCGGCCCGAGGTACATGTAATAGACACTA
TGCTACAGCAAAAGCTTTTCTTATTGTCTTTAAAAATTTTCTGGGTGCATAAACTATGT
GGGTAACCTTTCCCAATTTTAACTTTTACATTACAAGTCATTTTCAGAGTAAAAAGTC
ATTTAACAAAGGCAGATAGAAAGGCCTCAAATCCNTGAGGACCAAAAAATCCCAACACATT
TTCAAAAGGGAGAAAAATTTCTTTAACTTCATGGGAAAAGTATTTTAAACATAATAGAGA
GGCTTTATGCAGTCTTTGACAAGATGATACTTTTGAATAGAACAAAGGAAGAGGAAAAATA
TTTCATATTATAAA

Sequence 818

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTNNATTTTTT
TTTTTTTTTTTTTTTTTNNATTTTGGACTTTTTTTTTTTTTTTTTTNNAAAAAA
ANTTAANTTTTTNAANNNTNNTTTTTTTTTTTTTTNAATNTTNTTNTTTTTATTA
ACAAANGAAAAANTNACTTTTTTNTCCAAANANNCGGCCTGNAAAAACNTAAAAACAAT
GCNNGGATGGANTCAAANTAAAAATTTTTTCTTACGGAAAAANAACTTTTTGGT
TTNTTTTAAACAAAAANNTAGNAAAATTTTNNTTNTTTTAAAAAGNTAAATNGGNTTTT
TTTTTAAA

Sequence 819

CCCTTAGCGTGGTTCGCGGCCCGAGGTACAACCTGTAATAGCTATTGGTCTTCAAGTGGGT
TAGATTTGGTGACATCAGTTTGATATTCTCTTAAAGGAAATAAATATTCAAGAACTGATT
ATGTTCTAACATGATTATATTCATGGTGTACATAGGCCTCAATTTTTTACAGAAAGAT
TTTTGGAACAGGACTGTGAAGTGAGGCTTTTTAAAAATTATTTATAAGCAGAGAACAC
AGCCTGATAACTTAGTCAAGGATATACTGTCTGTCTCACTACTTTGGACTTATATGGCTT
CAGATTAAGTCATCCAAGAAACATACATACATTCTAAATGGTATATATTGGGAATATATG
CCCCTTTAAAGAATCAGGTGAGAAATGCAATAACAATTAGACTAGACTGTTGCCCGTGT
TAGGAGAATGTGTGGGTATCCTAGTTACTAATTACTCTCACTCAAGATGGAGATGTTGT
CCAGTTTAAACATAGTCTTAAAGTTTTCTTAAACCCAAATAATTTATGA

Sequence 820

CCCTTAGCGTGGTTCGCGGCCCGAGGTACTAGAATTAGTTCCAACCTACTGCTGGTGATAAAC
TCACCATCTACCTTCACTTGTTTTCTCTTAATTCTCCAAGAAGTAATCAGGTGAATAAAG
AATCATCATCAGATAATATTCTCCAAGATTCTTAAAGAAATTAATTTTTATCTACTCTTA
AATGATTGCACAATTATAGGATAGAAATTAATCTTGTGCTCTAATTCAAATTGCTCTT
AATGATCCTAGAGAGAAATGAATTACTAGAGATAAAAGATAAATTTGCTGTGGTTTGGC
ATCTTTGTCTTCTTCTTAAACCTTAAAC

Sequence 821

CCCTTAGCGTGGTTCGCGGCCCGAGGTACTGGAACCCAGACCTTACTTAAGCCACCAAAGG
CAAGGTTTTGGGCTGCCACAGCGGATTTCAAAAAGACAAAGCAATGCAAGCCACGTGTTT
AAAATGCCCTAAGTGGCTATTCAAGTAATATATAAAGTAAGACCAGGCTAATTAGTATA
CAATGGGGTAAACCAGAGAGCAGAAAGCCCTTCTTTAAATGAGCCTACCACTGCTTGGC
CTCAGTGTGAATTTAGACCCCATCTTCTGATATTTTCAAGGAGAAAGTAAAAATCTAGATT
TTATCTAAAATCTTTTTAATTTTTAAACAGTCACCTGATT

Sequence 822

CCCTTAGCGGCCCGCCCGGGCAGGTACAGAGCATCTTAAGGTTGGAAGGACTCTTAGAGA
CCATAGTCCAGCCTCCCACTTGATACTGAAACACGTTTGTGAATTCATGGCCGATGTCTA
ACTTCCCTCACCACCTTTCCGATATGGACAGTTCTCATGCCAGAAAGCAAAACCTTCTTT
ATTGTGCCTGTCTCCCTTGAAGTGTATGATATAATCAGCATCTTCCCACTAAGTGAA
GGGCCAGACTCGAGCACAGGAGCACAGCACCCCTTAAACTCACGAGGGGCTGCATTAC
ACCATCAGCAGGGAGATTACACTTGTGTCATT

Sequence 823

CCCTTAGCGGCCCGCCCGGGCAGGTACCAAGACTTTAGAGGGCAAAGAACAGAGGATTCTT
GAGAAAGGGGACTTGAAGGTGAAGAGATAAAGGCTGGTGTCTCCAGGAGCGTGGGTCTCC
TACGTTTGTGTTCTTGGGAAGAATCTTGGACTCAGGCGTGGGCGAGCTGGATGCCTGGGT
CCTTAGGCTTCTCCAGGCAATGTAGTGCCTCTTCTCTCCCGCGTACATAGTAAGTG

Table 1

TATGATAGATGTTTGATTTGTAAATTACAAATATAAATTATCACCCCCATTTCATTTAT
TTTCTTGATATATCAAAATGTGTTG

Sequence 824

CCCTTAGCGTGGTCGCGGCCGAGGTACCCCCATTATAGTAGGGAGACTGAATCTTCAAAG
TTACAGGGTGAATCAATGATAATGATCTTTGCAGCTTTCTGGAGTTAAAAAGCATCAAAA
TTGGGAGATATTAGATGATGACATCTAAGTATTAATAAGGAGATATTAAATGATGACT
CCTAGAAATGAACCTGAATAAGGACTACCGCAATGTGTGTGGTGTGGGAAAGGACAGTTC
TTTTAATGGCTGGCTGACCCAGCCTCAATTTCTTGCAGCTTCGCCGACACGAGGTGACC
ATCTGCAATTACGAAGCATCTGCCAACCCAGCAGACCATA

Sequence 825

CCCTTAGCGTGGTCGCGGCCGAGGTACCTCTCATGGCTTTTTGGTTCCAGCANTGAGGGC
ATTGGTGAGATCAGTGGTAAACTGTGCAAGCTTTCTTTTTATCATTAGGAAATGTGAAAC
GTNANGACAAATTTGAGTTTTAACAAGGACAAAAAGTTGAAAGAAAAGGCACAGTTAAC
AAAAAAGGGTGGCTAGATTTATCTTGGGTGATGGAGGAAATGAGAGAGGAATGCTCTTGA
AAGGTGGTCTGTGATCTGTCTGAATAG. AAGAGCACAGTNAGTATGCATTGCCGGAGAA
AACGTCCTTGAAGCTGCTTGTCTCATGTGTATGATGTG

Sequence 826

CCCTTAGCGTGGTCGCGGCCGAGGTACTCAACAAGCAGCTGACTTATGTTTTATTGGACA
TTGTGATACAGGAAGTGTTCAGAGCTCAATAAGGTACGCGGGAAAGTCAACTCAGTTA
CCTCTGTTTGGTGTGTATCACTTGCAGATGCTGTCTACCACCTTTTCAGTGACATCCT
AGAAGCTTCTCTATTACCACAGNAAGTGGCTAACTANANATGATCTTCCCTAATTTTCA
TGAGCATCTTTTTCTGATATAAACCAGGGAGGGAAAAAACAAAGTTCCTTCACTTTGA
AGGGAATATTC

Sequence 827

CCCTTAGCGTGGTCGCGGCCGAGGTACATATATGAAAAGCCAACATTCTAAAGTAGAGGT
TCACTTAATTTTTTTTTTTTCAAGAGAGGCTTCTTGGTAGTTTCATCACACAGTGGTTT
TATTAGGGGATGTAAGGATTACAGAAACATCGTATTTTTTAACATATAGTATTTTTTGA
TATGATTTGAATTAATATAGAAAAGTGCAATTTTTTCCAGTTTTTTTAGGGAAAAGGAGAT
ACTTCACCAGGAGGATAAAAAAGGAACAAGAGGGGAAGGGGAAATAAAAATCCAGAAAGA
TGAAAAATTGTTGATGTAAGATGGAGGCACATTTT

Sequence 828

CCCTTAGCGTGGTCGCGGCCGAGGTACAAACAAGCTTTGTTAAACTAACCCTTGCCATCC
TGGCTACTTTACCCAATTAACCACCCTAGCCCAGGACGTTTTGCTTTATCACATGTTTAC
AGTTTGCTATTCTTTGTTCAATCTTGTAACTGACTGCAACTGCTTCTGTGGGTCTCTGTT
TCTTTATGAAGTTTCCAGGCCATACAAAAGTGTGTTAGCCTATCTTCTGTCAAGTTTAA
TTGTGGAAGTCAAGTCAAGGAGGCTTAAAGAGGATGGAGGAGAGTTTTTCCACAGCAGTTCTG
AATGGGATGAAGTAAAAATAAATCTCCCCATTGCCACTACACCACCTCCTGATGAGTC
TTGCAGCAGAAATACCGTTTAACTGTTTCTGCTTTTATTTTTTCTGATTATCATCCAGT
TTTATATATTTTATATCTGGGGGCTTTGATAATTATATATACATACTTTTTTGAAATTAT
TTACTTATTCTTTACATTGAAAAGGAACCTGCTTTGTAATCTAAATCCCTTTNCCTTC
TACATTTTTTTT

Sequence 829

CCCTTTCGAGCGGCCGCGCCGCGGCGAGGTACTCACAAGCAATAACAGATTCATAGATCAGTT
GACATTGGCTGGTCTCCAGGACAGGAATGTGGCCAAAAGGGTGCTTTGTATAGACGCGGG
GCACTGAATCTGTGTCTCCCTGTTACCTACTTTTGCCAGTGAAATTTAAGTTTTAAAT
ACTTTCAGAATGTATTTTACTACTGCAAGTTTTTGGTCTTTAAATGTCAAGTAGCATC
TCTCTCTTCTCTCTGTCTCTTCTGTTTCTCTCTCCAGTTTTTTTTTTTTTTTAAATT
CCATATGGGCTAAAGAATCCAAATATTTTAAAAATCTGNCTCTCTTTCTCTCTCATAA
AGTGAATTATTCCTCTTTTTGTTTTATGTAAGTGATATATTCTTAGTTTTCTTGAAA
TCATTGTAATGCTAACTTTGTTGTTTCAAATATCTTGGTGATTGCTTCATTATCTCTTCA
ACAAAAAAAACCTTTAATT

Sequence 830

CCCTTTCGAGCGGCCGCGCCGCGGCGAGGTACAAGCCATTGAATAAGCCTCTTCTTTTTTTT
GCTCAAACATTCCACATCCTTGTGGATTCCCCTGCATTGTTGTTTTATATAACATTTGA
TATTTGTTGTAGCTTGATATGAACATAATTTCTTTAGAGGTAGTCACTGTTCTCTCCA
GTATGACCCAGGTTTCTTGACTCTGAGTAATGCACCTTCTATAACTATCTAAATTTCTAT

Table 1

TGAAGCTTTTTGGATTATGAGTATGCTGACTTTTCACGATTGGCTGGTGCATGTTAGAC
TTAAATGTCATATCCTTCATGTCTCAAAGCCAAAATAGTAACATCTCATCTCAGAACAGA
GCTGTGACCACATGCCAATATATGTGCACAAAGTCTACATATGTTACATTCCTTGAAG
TCTCCTTAAATGTTTCACA

Sequence 831

CCCTTGAGCGGCCCGCCCGGGCAGGTACGCGGGCTGGAAACTGAACGTGAAGTCACCACT
AGGCAAGCTGCCTGTAATTGAGCTTGCTTGATATGACCAATCAACCTTTGCTTGTTGAA
GGGTAGTTATCTAGTTTCCTTCTTTTCTTTTTGGAAATTTGGTCTTTTAAAGGCTTGAT
AATCTTTCTAGTCTAGAGCATGTGAACAGAACAGAAAGGAAAATCAGGACTCAGTTTACTT
AATTTAAGCAAGCATTGGTTGCTGCAGTTCAGGGGAGGTTAAAGTTGCTGGGCTCCACTC
TCTTATTAGCATGGATGCTTAAGAACTTCANGGGTTTGGAGGTCAGCTTGAACAGCTGTT
TTTTGCACTCTCCCTGGTTTTTAGTAGCCTGAGTCTATAAAAAGAATACCACTCGGGTAA
AAGCTAATATCCTTTAANCCATTTTTTACCCTTGATACCATTGCATTAATAAAGNATTATT
CAATGGGCTTTCATTTGCTTTTTTGGGCCTTTTTGGCTTNAANTCAAAGTGTNAAAAAG
AATTGCCATGGNTTTAAAAA

Sequence 832

CCCTTAGCGTGGTCGCGGCCCGANGTACCCTAGGCAGGGACAGTCAAGAAAACCTTCATGG
ATCTGTAGTGTAAGCTAGGGAGAAAGAGGAAGAGATGCCTGTTTGAATTTCTGTAACCTA
GCGTATCTCCAAGATAATGCATGAACAGCCAGTAAAGATGAACGCAGATTATTGATGGAA
AGAACACACATGGAGAAGAGAAAAAGCAAGTCCACAGAGCTTTTAAACATACACTCCCTCA
CCCCTACCCCGAGCTTAGAAGGGCAGGAACCTGCTGTCCAAAACAGGAAATATAGGAAAT
CCAGCTTGAGAACTATCCACT

Sequence 833

CCCTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGGNCA
AGTAGAAATCAAACAGTCCTAATGGAGTTCATATCTTATGGCATTATAGAAAGGCTTAGT
TATGAACTATCTTGTTATTGTTACTATTACATTGCCTGGCTCATATATATAAAGCATT
AGAGAGACTGTTCCAATACTCTCATTTAATTGGTGAAAAAATTAATATTGGTTAGAT
ACTTACCTAAATATTACTAGTTAAATTCAAAGTAAATGAGTCTGTATCTTTAAACTACT
TGGCAGTAATAATTTTAAAGTAGATTTTATTGCTTTTCTTGAACCTAAGTGTTC
TACAACACAGGTAGTTTATTTGTGCTGGAATTAAGGAGTGAGACACATTTGTAAATG
TTCACAATCAACGCCTGTCCCATTTTAAATCTCACAAAGTTTTCTTCATGATTAAACACA
ATTACAAAAATAAGAAATGGTATTTGGTCATTCTCTGAGTTCAATCTGTGCTCTAGTAA
TATAACTTGNAGGAAAAAGTAAAAAGNCAAGAGTCTAATTCATTTTCAGTTTTTA

Sequence 834

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGNTTTT
TTATCTGACCACTTCCAGGAACAAAGCCAGGGCTCTCTGGGCACCTGAGTATCCATTCTC
TTTGATCATCCATTCCATGTCCAGAACACATTACATCCATGCTTATAGTTTCTCATTG
CCTGAAGCCTGCTGGGTGGGCATAGTATGAATACTTGCCCTCATCATCCCCATTTTACA
GATGCATAAACAGAGGCCAGTCAGTATGCCCTGCAGACTGTGGATAGAGCCCGAAGCCTCA
GGTTAGGCAGCTTGCATCCAGCTGTGAGTCCCAGCTAGGGGAACTGAGTCAGCCTCCATC
ACTCCGTGTCTCGGTTTTCTGACCTCTCAGGTGGGTATCATGATGCTGGCTTTGGAGGGT
AGCTGTGAGTATTAATTACGCTGATGCAGGGCAGGTGAGCCCCCAAATTGGGGTTAG
CTTGCGAGAGTTCTTGCTTTGCCTAGGAAATAATTCA

Sequence 835

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGA
ATTTAATGGAAGAAAAGTCCAACCTTAATAACTTTAATGGANAAAGAAAGGAAGCANTATAA
ATTTGTGGAGACTCCAATCACATGTCTCCACTCTGCTACCCTGGGCCCAAAATAAGGGA
GGAGACACTCANAGCCAGGTGTTTCCCTTGATGGGAATGTGATCAGGNGCGACATGGGCT
CACAGCCTCNCTGAGGCTGGATCTTT

Sequence 836

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTAGCAAAGAGACTTACACATTAGTGAAAAATC
TAAATCAGCCTTACGTGGGATCTGCCAAAGTATTATTTGCAAAAGTATCATTTTCAGT
TTTAACTTTTAGGGGGAGCAGGGTAGGCTGGGGTGACACACACAAATCTAGGCAGGCAGA
GAGCTTGCTTTCTCAGCTTCTTACCCTTAGTAAGACCACTTTAGTAGGACACTTAAGTA
TTTCAGTCAGCGGATTTGAATCTGACTTCTTGATGCATCTGTATCAAAACATACCATTA
GATGTGTTACAGAACTGAGCAGCATATCATTAGATGTGTTACAGAACTGAGTCCTACTTA

Table 1

CAATAATTAATTTAATTTCAATAGCGATCCCCACCATTATGTCCTAGGCATCTACACAA
TTGGTCTCTGAGCGAAAAACAGCCTTATCTGCAATAAAAGCCTCTGCTTTGGCA
TGTTTTACAATCCCGCGCA

Sequence 837

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTGCAAAC
TTAATAGGTTTTCTTAGCTTGACAACCTATTCTATATTCACNAACATCTCCTGACTTG
TTCCTTCAGTGGANATACCCTTTTCTAGCCAGAGTTGGCAAAAGTAGCAATAGCATGCAT
TGGCTTGTTTGANAGGCCCTGGGTGAGCCTTTGTTGCATAAAGTAGGAGGTCTGTTATTG
TCTTGGTAGCATATGCCTTCATTATAAGTTTGCCTCTTTGAAAGAATATTCAAAGACCAA
CACAAAAGAGAACATTTCCAGATCCAAGAGAGTGATGTAGAAAACAGTGACAAGTTAGAA
AATCAACTTAGGTATCAGATAGCAGCCACAAAATATGTTCTGAGGAAAAATTCATAGCAA
TTTATAACAGCTGAAAAAAGAGGGAGGATGCGGGAAGGTAGATTTTGTGCAAACTTACT
AGACTAAGGATTTATTGCATATTTTTACTAATTAATG

Sequence 838

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTACAAAAATAATGAAGCCAGCTAATTACCAT
CAGGTTACAACTTTACAAAGAAGTGAAGCAGCAAGAGCTGAAGCAGAAATGACATAGGA
AAACAGCAGCAAAGTCCTTGAGTCCCAACAGTCCACCTCAAAGACAAACATACTAAAGAA
CAAAGGCCCTAATCCACCTCCTCACCCGCTACTTTTTTTTTTTTTTTTTTNC
CAGTTTCTGTTCAAATTCTTTATTATACATCATGGTTGCACAATTTGAGGCTGGTTAAA
TACAATTGTTTTCAAATCTCTTTGAATATTTCTGGCTTATTACATGCAAATGACCAT
GAAAATATTTGGCATTTTAAATCTGAAACTCTGAATAGGCATTGCATGAAGGAAAAAC
AT

Sequence 839

CCCTTAGCGTGGTTCGCGGCCGAGGTACGGACAAGGGGGCGACTGGCATGTGGTTTGTTC
TGGTCTTGTAGTCGGTTTGAATTTCTAAGTCAGGGTGGGGTGGGGGGACTGTGCACGA
GTCATGTGCAGACTGGAACCCATCTCCCCCTCGGTCTGCAAGTTAAACAAATTGGGTGT
CCTTCTCAGCATCTGCCAATGTCTCTTACTCAATCTTGATCAAAAGGGCGTTGGAGGAG
GAGGCTGGGAGGGAAATCCAGACAGTTCTCCGCTCTGACATCAGGTCCAGCTGTTAGCA
TCGTGCTGTGGGTCCCTGAACAAGAAGCAAAGTCAGGACTGGTTTGGCCAGGTAGGTGAG
GATCCAGTGTGGGTGATTCTGATCCATGCAGCCCTTAGAGGCGACACAGACGTGAACGTG
GACATTCTAGGAAGAAAGAGCCGACTGCCGGGTGACCTGTCTAGTTCACATCCACTCACC
ATTTCCCTCCTCGTTCCTATTCTTAGAAATAAGACTCTGACGCTCTCTTTATACAGGCT
AGTCCCTATAGGCATGTCATGGTGATTATTTGCAATCCTNCTGACTTTCCTAAGAAGAG
ATCANACTTAGCAGGGTTAGTC

Sequence 840

GTGGTCGCGGCCGAGGTACAAATAAATGTATCTTGGGTAAAGTGCTATAAAGGAAAAAGAA
CAGGTTCAATGGAAGGAAAAATTAGAATTGTTGATACATGAATGGAAGTAAATGACCCGG
ACTTCCAACCTAAATCTCTGTCTCATTTCACCTCTTTGTAATAATCATTGCTATTATG
TTAAATATCACAACTACTGTCAATTTCTTGTATACCACTACATTCTAAGCTTGGTGCTGA
CATCTTTGTATTTATTATATAAAATTTCTCAAAATTAATCTGCCCCGTAGGCTTTCTTATC
ACTTATTTCAAATGCAAAAAATAAGGTCCAGGGAAGATAATTATGTNACTTGTTTCATGATT
GGAGAGCTAATAAGTGTGAGAGATGAATTNAACCAAAGTTTGGTGTGACAAAAGCCTCTG
GTTTTAAGCAAAAGGGGAAAAAAATTTCTCATTAACTCCAAGGATTATCATCAGGGAGTC
CAACAGGGTTCCCAATTTGGGAACCTATATTCAATTATCATATGGCAAATGGGTCCC
CTTTTGTAGATGGAGAAGGGCCAAAAA

Sequence 841

CCCTTAGCGTGGTTCGCGGCCGAGGTACACTTAAAAATGTATGTGCTGTTCTAATGCTACT
TATTATTATCCCTTCTTTGTAGAATGTATCAACACTAAAAGTGTAAATCCTGACTAT
AACAAATTTGTTAACTATTAAAGGGGTAATTATACTCTAAGCTTCCAGTTTTCAGTTA
AAACAAAAATGATTAATATGCCTATACAGAACTTTCTCCAGCACTTGGTAAGTATTTTTT
AAAGTGAAGTCTATTAGACTGCAACCAAGTAACTATTTATGCTTATAATTTTTCTCAGC
ATGGATTTCTGTTCTTTGGTGCATTGGTTGTGTTTATTTTATGTGATCTTTTTAGCTA
CAAGGTGGGAAAAATGACAGTGGTTTAGAAGATAAGAAGCACATGAATGTAAAGTAAAT
ATGTGGAGATTTTGGCCACTCTGAACTACTATCTGAAGTAGTTTTAAATATTTAAG

Sequence 842

Table 1

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGGCGTGATCATAGCTCACTGCAACCTCCAC
CTCACAGGCTCAAGTGATCCTCCCACCACAGCTTCCAAATAGCTGGGACCACAGGTGCAA
GCCACCACACTTATTAATGTAGATTTCCTTTGTAGATGTAGATTCTTTTACAAAGTGAC
AGCTTTTCAGAGCTAGTCCTATGTCTGCAGTTTCTCAGAATAACCAGCTCAAAATATGCC
AGAGAAAGTATATTTTGGGGTGGCATATTCTAGTCTCCTCCAAGTCATATTTTGGGGTGGT
GTGTCTGAGCCCCAACAGATAGGTTTCATTTTGAATAATTGCTCTTTCAGTCCCAGTG
TTCATTCTCATAAGCCCAGGAATCACACCTGTTGATTTCCTAGGCATCTTCTTGCTCAN
GGTAGTTAGATGTTTGGTGGGACTAGAAAATGCAANGGAGGGAGAAAAAGGAAAGGCTTG
GTGNATGTCAAAGATTTTAA

Sequence 843

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTGCCTATTAATTGAT
TAGGAAAAATAGGTAGACCCTGAGTGAAAGTAGAAAAGAACCATTCTGGTAAAAATTCTG
AAAGTAGAAAAGAACCCTTAGCTTTAAAGGTATGTCTTAATAGAGCAGTGCTAAGACAGG
TGTTAGGTATGTGAATGCATGCCACTTAGAAAAGAATATGAAGGAGAAGGGACCAAGAA
GGCAGATACATTGCCCTGATAAAGAAGTCATTTTCTCTCACCTTTACATAAATATCAN
GCCACTAAAAATCTAGGAGCACAAATAATGAAAG

Sequence 844

GAGCGGCCGCCCCGGGCAGGTACAAGAGAACGGACGGCACTTACTGAGCCCATCGCAAATG
TCAGGCTCTGTGCTATACTTACATTATCCCATATCTTCAAGACCCCTCAAGACCCACA
AAGTAACACAAAGCAGGAACTAACTCANATTTACTTGCCAAAGGTCACACAGTTAATAC
ATGGTGGAATCAGGACTCAAAATCANGCCTGTGTGACTCCAAAGTCCAGTGCTCTCTCCA
CTTTACCAGGTAACCTTCATAATACCGGATTGGAAATCAAACCTGTCACCTTACTTTTCT
ATGTCCCTGAGTGANTCACAACTTTTCTTCANCCAGCTTTTTTTCATT

Sequence 845

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGGAAATTGGTTTGATTGCCATAGGCTAACCT
TGGACCAATCACTGTGGCCAAATACATGAGGTATCCTTATTGGCTCCTTCTACTAGCAAC
AGATGGTTTAGAGAACAGTGTATCACAGAGAAATGGGGATCACTATTATAGGCAGATTGA
ATAATAAATGTTCACTCTACTACTCAATAAATATTTGTTGAACAAATCAAAGCTGATCCC
TTTTTCAAATTTTAAATGTGACTCTTAGGGGATGGTGGATCCAGGAGAGAAGATTAGT
GCCACACTGAAAAGAGAAATTTGGTGAGGAAGCTCTCAACTCCTTACAGAAAACCAAGTGCT
GAGAAGAGAGAAATAGAGGAAAAGTTGCACAAACTCTTACGCCAAGACCACCTAGTGATA
TATAAGGGATATGTT

Sequence 846

CCCTTCGAGCGGCACGCCCCGGGCAGGTACTTTATTTATTTATTTATTTATTTATTTGTTTT
ACTATTTACAAAACAAAATGTAGCTTTCTTAAATTTGTAGTTAAATGTTTTCTTTGT
TTTCCCAATAAAATGTAAAGTTTAAATATGTGATGGCTAAACTCCTAGGGGGATAAGGAGG
CGCTAGGAGAATAGGCAGGTTGGAAAAGGTTAGTCGGGACTTGTCCAGATTCTTGTGTGG
TAGTCTGGGTAGTCTGTATATTTACCATATGGGCTACAAGACACACACACACACACAC
ACACACTCACACACACACACACACACACACACACACCTTGTGAGCATTTATTAATTCGCAG
TTGATGGTGATAGTTTGGGGAGTGGGTAAAGGATATGTTACTTTTGT

Sequence 847

CCCTTAGCGTGGTCGCGGCCGAGGTACTATGGTGTGTGTGTGTATGTGTGTGGTGTGTGT
GTGTTTTAAGTTTANCCTTTTGTTTTGTTTTTGGTTGGCAGTAACCCNATTTTAAATGA
CTAAGCTTTTAAAAATACAGTACTGATCATTCTATTTCCCCCTNTATTGATCCCCACCTC
CAATATCTCATCAACAACCGACTAATCACCAACCAACAATGACTAATCAAATA

Sequence 848

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGTGTTATGCTTGTGCCTGTGTGAAATTCTAC
AGTGCTGAAAATCTCATGCACTCTAGCTATGAATGCAGGTCTACTTGAAGCAAACTCTT
CAATCTAATTGTTTTCTCAATCTTTGTAAACCAAGTTTTAAGAGTCACCAGAAATCTGTAG
TTTAAGGCACCAGATACATTTCTTGGCTGAGCCTTGAGGACCAATATGCTGGACCAATT
CGGTAATAATACACCATAAATTATGACTGCTTTATCTGAATGCATGGGACACTTGCTACGA
TGGCGGGGAATTATTACCAGGAGTTTAGGAGCCAGACATGGGTTCTGTATTTTTCATACAT
TGGTGATCAATTCAAATCTTTCTTTGCANCCAGGTTTGGTCAGTCTGGCCAGGAGT
GCAGATTATGACAAAAACAAAGCTAAAGACCTGAGCCATTAAGGTTACAGTCTCAATA
CCACCGAGTTAAACAACCTATTTAAATGCAAGACTATTGATTGGAAT

Sequence 849

Table 1

CCCTTAGCGTGGTCGCGGCCGAGGTGCGGCCGAGGTACAAAAGTTCTGAAATAACACTATA
GGCTTAAGGAATAAGGGACCAGAAGTAGCCTGGTAGCCAGTGTATTTCTGGCTTTATACA
TTCCTTAGGAAAAAACTTTATAGATGTATTTAAGTAGAATTAAGGTTTACACAAATG
ATTTTTGAGAGAGAGAGTCCCTAGGACCTAAACATTCGTTCTACGGAGATAGGGTCAAC
ACGCAGATATTTATTTAGCAGCATGGTCTGCAGAAGTAGGAGGAGGTGACCAGATGTGAT
GGATTATGCCTGTAATTCCAC

Sequence 850

CCCTTAGCGTGGTCGCGGCCGAGGTNCCACCTAACAAATTGGAGGAAATGAAAAGACGAA
TCAACAACATTTTGGAGAAAAAATTTATTCTACTTCTAGAATTTTACTACTACAAGTGCT
TAGTTCCTGGTTTGGTANATGAAGTGAATCAAAATTGGATATTTGGAACATTAAATATG
GGAGCAGAGAATCTGTGGAATTATTGCTGGANGACTGGCATAAATTTATTGAAGAAAAAG
AATTCCTAGCTCGACTTGATACTTCTTTTCAAAAATGTGGAGAAATTTATAANAATTTGG
CTGGAGAATGTCAGAATATTAATAAACAGTATATGATGGTGAATCTGATGTTTGTATGT
ATAGAAAAAATATATAATGTGAAGTCCACTCTACAAAAGTGCTGGCATGTTGGGCTA
CTTATGTGGAACCTTCGCTTACTAAGGGCTTGCTTTGAGGAGACNANGGAAGGGAGAA
ATTAAA

Sequence 851

CCCTTCGAGCGGCCGCCCGGGCAGGTACCTATATTCTATGCAAAATTTATAAAATAATC
CTTGAACATGAAAACCTCATCTTAAATACACGAATTAAGTAAGCATGCAATACAGACAC
TTGCAGGATGCCTGGCCTCTGGGAACTGCTCCTGTCTCTGTGTGAATGTAGAAGTGAGGC
TCAAACCTCTCTTAGGAAAAATTTCCCTTCCCACTGCCCATCCATTCTGCTGACTCAA
CAATTCCCACAGAGGAAATGGGAATAGTATCATCAACTAGCAGTCTCCCATGCCAACAG
ATTTGGGGTCTTATCTAAGTGTTCCTGCAGCCCGGTCTTCCCTTCTGACTTCCCGTAT
TGGCTCGTTAAATGATTAGCTGGCAATACAGGTATGTTTGGACTGCTATTGGTGGTGAA
GTTTAATCTTCTAACTGTGTTTTGTGAAAGGAAATATCCCTAAAAGCTTTGGTGTCACT
TAAAAAAAACAACTATATATGATTGAAAGAAATTTGAGATATTTTGTTC

Sequence 852

CCCTTAGCGTGGTCGCGGCCGAGGTACTAGCAGATGATGGCACAGTGACAGCTGGGAGGG
ATGGGATGTGCTTGCTTCATGTCCCTCCCTCTGCTGCTCAACCCTACACAGTCCCTGT
CTGGTGACCGTGCCAAAGTCTTCTGCTTGCAGAGAGGCCCTNTCTTCTCGAACATGG
GCCTCAGGAAAGACAGCCTGAATGCCACTACCCAGGCTTGTTGGAAGGTTCTGCATCAGT
GTGGCATTGTTGCGATAGCCCTCAGTTGATGCTTGTGTTGTTGGTGTGGGAGGCAGGAACT
ACTTTAGGAGGGTGAGGGGTGAGAATGAAAAGAGGACTTGCCCTGAGCCACCCAGCTGT
GGTCACCTGATGGC

Sequence 853

GGNCGGGCCGAGGTACGCACATACATACACTAACGCTCAGCATAAACTTTCCATTACA
CTTAGACAATGACTTGTGGAGGAAAAACAAGGATAAACAAGAGTCTCAAGAACTTAAGAA
AAACATCAGAGTTGATTATTTAGCACTTTCTCAGGATTCTAAGGCAATANGCCTAANTTC
AAAACGTGAAATTGTTCTCTATTTCCCATAGTCATTAATGAGATAAATGACAAGCTAT
TGCTGCTTCTCCATTCTGTTTTCAAAGAACATTACAAAAATAAACAGTGNGTTCTCTAA
CAGTTCTAAAAACAGNTTG

Sequence 854

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGAAGCAAGGCAGTTTAGGGACAAAGGGCATG
AGCTTAGAGTCAGATTTCTAGGTTCCAGATCCAAGCATNACTACTTATTTTCTTTAAGAA
CTTGGGCATCTGTAACACAGGATAATATCTTCTCAAAGGGCTGNTGNGAAGATTCAAC
AAGGTAATACATAT

Sequence 855

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGGGACTACCCACCACCATGCCCGGCTCATTT
TTGATTTTTAGTAGAGACAGGGTTTACCATGTTGGCCAGGCTAGTCTCAAACCTCTGA
CCTCAAGTGATCCACCTGCCTTGGCCTTCAAAGTGCTGGGATTATAGGTATGAGCCACC
GCACCCAGCCTTCAATTTTTTTTAAATTCTGATAGAGCACCATCTACTACATGCTTAATA
TTATCCATAAACAGACATGTCTGAGCACAGAAGATCATGTTAATGAAAGATTATTGAAAG
GTACCTGCCCGGGCGGCCGCTCGAAAG

Sequence 856

CCCTTCGAGCGGCCGCCCGGGCAGGTACAGAAAAAGCATAATGAATACAACAACCTAGCA
TCAAACCTCAGTGTATATAAGAATGGCTAAGTGACCATTAGTCATGTGAAAAGCTTAACAA

Table I

CTATTAAGCTCTTATTTTCTTACTAAAAACAATTTTAAGTTCTTTCAAGGCTATAGTTA
CGCTTTACATAAGAGGCCCTATTACCCACTAATTCTTAAAAATTTCTACCTACTTAAAAAT
TCTTTAGACATTTCCAAAGGTTAGTAAAGGAAGACATAAGATATGCTTACTTAAATCCTT
GCTGGTTCCATGCCTGGCCATACAT

Sequence 857

CCCTTGAGCGGCCGCCCGGGCAGGTACCATGAAATAGGACCTTCTACGGTTTAAATAAA
TGTTTGTTTTTTCTAGCCCTGTAGGTCAATGAATGCCTGACTCCAGTGACAGACCATAA
TTATCCAAATCTCTCATTATGAATATGGAATATAAATATGCTAAATTGATTATGTCATG
AATAGACTTCTTTTTGCATAACAATGTTTGGAGTTTCTACCTTTCTCCTNNCCTTNTT
TTTCT

Sequence 858

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATGTGAGTTCTTCTCCAGACCATCAATATAG
ATTGGATTTATACACTGATCGCTGTGTCTCTCCTTCGTAATAACCTTACCCCATGTTGCA
ACAAACATGGACTTGTTACAACATCCAGAGTGAAATCTGAATGTGGTCAAGAAAGTTCA
GAAACAATAAGAGTGATGCAATGCATACCACAACCTCAGGCCAGTGCAAAAGTCAGGCC
CAGCCCTTCCCATATAAGGGACTTGGTCATTTGAAAAATCAAACCCAAAAGGAACAAT
ATAGGGACCTGTAATCAATTAGAATATTC

Sequence 859

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGGCTGGACTTGAGGTGGTTTAAAGTTGGCAG
CTACATCGAAGGACTTCTGAAAAGCTCAAGTGACAGTTACACCTTTGCACTCTCCACATT
CAGCTGGCCCTTTCCCTCAAAACATGGATAATCTTCAAACCTCCCTGAACAGGTGGAAAT
GCGTCTTCTCTAAGCCAAGTTCTCAGTCCACATTAGTCCATACTTGGCTACAGAATTG
ACGTTTGTGGCCACAATCCTACTAGAAATGACCTTTGGGTAATATCCTTATCTTGTGAT
CTAGTTAGGGTCAAGTAAA

Sequence 860

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATGCAGAAGGAAAGCAATTGCAGATGGAAA
AAGCTGAGATGCTATAAGGAATTACGGATTTTATAAAGAGATCACCATGTGGGTGAATGT
AAATATAGATGAACAATGAAGCATAAACAAATTTTAATATCTTACAGGCTAAATATTT
AGAAATGAAAGACAACAATAGCATATAAGTTAAGAAAGGGGTAAAAAGAATCAAGAGCA
TTCTAAGGTCCTTATATTACCTGGAAGGAGAGTAAAGATAATGACTATCTTCAGGCTGAT
AAATTAACAATGTATGCTGCCATTTC

Sequence 861

CCCTTTGCGGCCGCCCGGGCAGGTACCAGCACAGCAATTGCTGTATGTTTGTTTTTAATT
ATCGGTTTTCACTTGGAGGGGCCAGTTCTCTATATTTCAATCTATTTTCTATATCAGAAA
TGAGCAGGCATTTTAAAAATGGCTTTCATTGATGGAGAGGTAAAGTGAAATGGCTTTG
TTGTATTTATATTATAAAGGCCATTTCCCAAATCTAGAATTTATTACTAAAAATCAAGT
TTGCATTGAGGGGAGGAGTATGATTTGCTCAAGCTTACTTTTTTATAGGTGGGGTTTTT
ATATTTTCAATGTGATTACTCAC

Sequence 862

CCCTTAGCGTGGTCGCGGCCGAGGTACACATTCCATGCTGGGTCATACCTGAGTGCCAGT
GGAATATAATTTGGAAGGAATAACGTTGTTGAAAAACATCCTCTACAGACAATATGAACA
ATGCCTTAGTCATCTATTGATTATGACAATATACTCTTGAACAAATGTTTTCGGTTCTG
GTTTCTGTGGTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 863

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTACACCTCACCACCTGGGTGTCTCTCAGACG
TTACCAAGAGACAGAGTAAACCCATGCTTTCTCCTATCCAAACCAGTCTCTCCTGTTCCC
TGCTTTGTCCAAACCCAGTTGCAGGAATTTATGTCTTAAAGTAAACCATCGTATGATAAT
TTCCCTGAAAATGTGCCTATTAAAAAATAGGATATGATGGGAGGCAGACATAAACA
TTCTGGTCAATTTATTGGTGTATTATTTTTCAGTTAATAAACTGCCCTTTCGCTATG
CTTCACTTTCCAGTGTTTAGGCAG

Sequence 864

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATGCTCTAAAATGTAAGGATTCATTTATGAG
AGAGTGAACATACTGCTTGTAGCTAAAACATTACAGGAGACCTTAAAAAGGGGTATAATT
GGTCCCTATGTGAAATGAACCTGACATATTTTATAAATTTATTTGTGCATGACTATCTTT
TGNTGATAGCACTAGGAAGACTTNTAACGTTTAAATACTTTATTTGCCCTCAATTACTAT
TAAAAAGTCCATAATTTTAAGTAATTTTACAGCTGACAAAGATAAATATTTTTTCTTT

Table 1

TAGTTTTCTAATGTCTTGGAGGTAAAGTGGAAATGGCCTGTTTTGACACATAATTTCTA
GAACTTGGAGTTAATTTTGATCAGTCCATTTTGGGT

Sequence 865

CCCTTAGCGTGGTCGCGGCCCGAGGTACATGTTACTGGGTATTAAATGCGTTCATAGTAG
GGTATTAAATCAGCAAGGTCCCATCCCAGAAAAATGTGCAGTTTGTCCAATGGGAAAGA
TGCANAGACAGTTTTCAGTTAATACTAAGTGCTAAAGATTGGGATGTGCACAAGAAGCT
GGAGGTAAAAATTCTGGAAACTGAACGTGAAGTCACCACTAGGCAAGCTGCCTGTAATT
GAGCTTGCTTGATATGACCAATCAACCTTTGCTTGTTGAAGGATTAGTTATCTAGTTTC
CTCCTTTTCTTTTTGGAATTTGGTCTTTTAAGGTCTTGATAATCTTTCTAGTCTAGAGC
ATGTGAACAGAACANAAGGAAAAATCAGGACTCAGTTTACTTAATTTAAAGCAAGCCATTG
GTTGCTGCAGTTCAGGGGAGGTAAAGTTGCTGGGCTCCACTCTCTTATTAGCATGGATG
CTTAAAGAACTTCAGGG

Sequence 866

TAGATATAGGATAGTGATACNTTGAANAGGACTATGAAAAGGGACAGTAGGGCTTAGTGG
AAAAAGTTTTAACGANNTCTACNGTTATTGAATNAAANTACATATAGCGNGATTCTTATT
ACTTGAAATTAGGAGGAGAAAAAATTTTTGAGGTAAATTNGAAAAGACATAAAATAGAC
TA

Sequence 867

CCCTTTCGAGCGCGCCGCGCGGGCAGGTACGCCGGGCATGCAGCCAGGCTAGACCGGCTC
A

GCCCCACTTCAAGACAAAATCTCAGCACCCATTACTCACCATACATATTTATGCAGTGAG
CTGCATCATGACCAGCTATCATCTTACCTCATAGTTTTTTCTCTGGTAGAGATAATTA
CTTATTATGCTTGATCAGTTAACTCTTGCTTAGAAATTTAAAAAATATTTTTAAGTGACA
AATTCTTTGTAGAAATTTTTGAAAATAGAAATTTGAAGTAGAAAGTTAAATCACCCA
CAATTCGTCTTTTGTTAACATTTGAATATGTTGCTTCCATGATATATAACAAAATTTGT
CTGGGTATTGCATATGTCGCCCTTCTCTTAAATATTGCATTTTGAGCATTTAACCNGAA
CACTAAATATTCTCCCTAGAACATATGGATTTTGAATAATTTAGCTAATTATAAAAAATA
CTTCCCTAATGGTCCCTTGGGCTCTTTAAGGTTTTGCTGGTATATGTTTCAGGGGATGAA
CCACTTAAGGCTCTTGACCACCATACTGNCCATACTGCCATACTGGCATACTGNTTTT
AAAAA

Sequence 868

CCAGTGTGATGGATATCTGCANTTTTCGCCCTTTCGAGCGGTTNTTNGGGCAGNTTNTT
CNNCCTTTCTGTGNTATTTGTGGCGGNATGTTGNATACTCTCTACCATGGGGATGAAGAC
ACAAGAATTATGATAGTTTCATTGAAAAAGGTTGAGAATTCAGAACTTGTGAGTTTCCACC
AATAATGGCAAAGATACAATATGACAAAGTTTCAGTTGCTTAAATGAATCTAGGAATGAAG
AATCTAGAAATTATAATGGAGAGGTGATTAGGAGTTTAAATGGTTTAT

Sequence 869

CCCTTAGCGTGGTCGCGGCCCGAGGTACATTAATTAAGCATACTAAAGAAAAAGGAATG
TTTTCTTAGCAATTTAAGAACTTGCTTAAAAAGAAAAAAGATCAACCACTCCCTCTAGT
GACAAAAATTAGCCACAAGATGAAATTCAGTTAAATTCCAAACACTGTGGAGATGGAAA
GCCTTGATTTTAGATGAAAGGATTTATGGCTGGAATTAAGAAATTAAGGCAGAAA
AGTGGGTGAATGGAAACATTTACTTTTTGTTTTAAGTGTTAATAGCCACTTTTTGTCC
AGTCTGNATCTCCTTTCATTAGTCTTTATATATATATACNCACACACCCCNACGTAT
GTTATATATACATATAATGGTTTATGATTATATATGNGGATATATACACCTTATATGGT
TATATATATAGGTTTTTTTTCNNGAGCNTTATATCATGGTGAAATGAGTTCAAATGGACCC
TGGCCCGGGCNGGCCGNTCGAAAAGGGCNAATTCACCACACTGGCCGGGCGNTTACTA
GTNGGATCCCCAGCCTCGGNNCCAANNCTGGGCGTAANCATNGGGNAATAGGTGTTTNC
CTGGNGGAAAAATTGNTNCGGTTAAAAATTCNCCCCAACATTCANNCCGGGAAGCC
CTTAAAAGGGGTAAAAGCCCCCTNNGGGGGGGCCCCCTTANTTGGGNGNGGGNGCCCTT
AACCTNCNCCNNTTTTAAAAATTTTGGCCNNTTTTGGCCCGCCCTTTTANAAAAAT
TTGGGGCCCCCNCNNTTTTT

Sequence 870

CCCTTGGCCCGCCCGGGCAGGTACTAATATTCTTCAACAGAATGCAATAAAATACGAGCT
ACATAAAATCCAACTTGGTTCAAAGGTAGCTATGTTTTTTAAAAAAGGTTATTATAACA
GACAAAGCAAATGCAAACTTATCCTTCCAAACCCTGATAATTGGTAATACCAAATCTG
GTATCTAATAAATACAAATCAAGAGAATACCTTGCTAGCTAAATTAATAAAAAAAAAA

Table 1

AAAACT

Sequence 871

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGGGCTTCTTTGGTGATAGTTTCTACTCTCTT
TAAATACTGTTCTGTTATTTTTGAAATCTGATCAAGAATTGACACAATAAATCTCTTTGA
TATTTATACTTATGCCTACTTTTAACCTTTTAGGAAAACCTTTATGAATTGGAATATTCTA
AAATCCCTGAAATAATTTGGAATATTCTAAAATTCTGAAGAGAATATGAACGGATTGTTGG
AATGGAACTTTACCCGATTCCCTCAGACTAGAGTGTTTCATACGACATTTTGCCAAGAAG
TTCCTATAGAGGCAATATCACTTTTAGGATGGATGGGTCTAAAAGGATCATATTTAAGTT
TCTGGTTATTCATGGNTGCACTCACTTTAGAGGATGTGTTCTATTAGGGTTGCTGCTAC
TATTTGTCTCTCCTAAATAACCAGTATGGAATTATAGAAAGAAAGGTGGGGAGAATAGTC
CGTGTGATCTNCTGGGCAGCATTAAAGCCTGTTCCATCCAGCCCCGACTATTTTGGTCT
TTCTTTGCCCTTTGAAGGCCCAAGACATTTCATTCCCTCGAAGNTTTTATGGTCTATA
CCCCTCTCTTGCCTNCATATNTTTTGCAAGNNGGGGGCCAGAAATTTTTTGGATTCCCN
TAAAAATGGACCTTGGGGTNTTTTANCCATAANCTGTGAAATTCCAANGGGGGGGGGG
CCCCTTNTNCCCCCCCCGGGGGGCCCCGGGGGNNCCCCNCNTTTTTTTGNAAAAAAANN
GGGGGGGNCCCCCAAAAAA

Sequence 872

CCCTTCGAGNNGCCGCCCGGGCAGGTACAGTTCTGTGTTTTCAATTGATACATACTAC
TTATGTAAGAAAAATGAGTAAAAATAGAGGGCCACACAGGCAACAGCCATTAGGTTATGC
ACAGAGAAGGAAAAACCTCAGAGGTTGTGCTGCCATCTTCTGGAACAAACAAGAATCTAC
AGGAACAGAAACATGATGGAAGAACAAGGGTTAGTTACTGCAACGAAAAACATGGCAGG
AAAAAAAACCATTTTGAAGCCAAGCTTTTGATTAAACATGAATGAAAACAATGGGAAA
ACAACAACNACNAAAAACAAAAACAAAAACAAAAACAAGAATGACCAAATACAGAAATTAT
TA

Sequence 873

CCCTTAGCGTGGTCGCGNCTCGAGGTACTTGTTAAAAATTCAGATTCCTGGACCCACCCTAG
ACCTACTGGATCCAAATCTCTGCAGACATGGCCTGGACATCTTCATTATAACAAGCTTCC
ACATAGATTATTTTGTCAAGTGGCCATGTCTTGCTTTGCTTCTGTGGAACTACTCTCCAT
CTTCTGGAGTGAATGTCCCCCATTGCTATCCACATGGTCTCGCCTCCCTGATACTGTA
GTCTCAGATGGCACCTNCTGAACTGGGCCCGAGCTCAATCACTTTCCAGACCCTGCCCA
CCTCGCTNGGAGCNTCAGTGGTCCCATGGTGGGCAAAGGAACCCAGGTTTNG

Sequence 874

GATATCTGCAGAATTCGCCCTTTNCGTGGTGCNNTTTCGAGGTACTGAGGATGACTAGAT
GACAAATAATAAGAAAAAATGGCATTGACTTTGTATAGAACTTAATAATCAGATTTTTAA
AGAGGTTAGTCTATTCTCTTATTGAGAGATATGAAACTATCTAGGCCTAAAGACTGTA
AATCTGCCTGGAATCAGATAGTTGGCAGCAAAATCAGAAATAGAAAGCAGTTACTCAACA
ACCAACAGTTTAATTTAAGAAACATTTGACAAGCATCTCCTGTGGATAAGACCCATATGCA
AGATGTCATGAATATAAATATGCACAGTAGTACCTGCCCGGGCGNCCGCTCGAAAGGG

Sequence 875

CCCTTANCGTGGTCGNNTTTNGAGGTACTTTAAAAATAACAGAGTGTGATTTAAGAATAC
TCAGACTAGAGCCTTCAGTGAGTTGTCTGAGGGAAAGGAGTGAAGTCAGGACTTAGATAG
AAAGATTACAAAGAAAGTCAAAGTAAGCAGAGGAAAAAGATACCAAATGACAGCTTCAG
AATAAGCAGTAAGGGAATAAAGAAAAACAAAGTTGTGTGTGTGTGTCATGTATTACATGATA
AATCCATGGAAAAAGAACTCGCAATTTACTAAAGGAATAATTCATGGTCATACCAATTTT
TGTGTCCAAACTAATTGATTAGTATCAGAAGGAAAGTCAATGTTTAAACAGTCCTTCC
CACATCTGCTACTTCCATAATGCCTATGCAACTGTCATAAATTAAGAGTAGAGAAGGGCA
CAGGGCC

Sequence 876

CCGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCTTCGAGGTACT
TGNTAAAATTCAGATTCCTGGACCCACCCTAGACCTACTGGATCCAAATCTCTGCAGACA
TGGCCTGGACATCTTCATTATAACAAGCTTCCACATAGATTATTTTGTCAAGTGGCCATGT
CTTGCTTTGCTTCTGTGGAACTACTCTCCATCTTCTGGAGTGAATGTCCCCCATTGCT
ATCCACATGGTCTCGCCTCCCTGATACTGTAGTCTCAGATGGCACCTCTGAACTGGGC
CGAGCTCAATCACTTTCCAGACCCTGCCACCTCGCTGGAGCTCAANGGGTCCCATGGT
GGGCAAAGGAGCCAAGTTTGGGCAACAATCCCTATGCATTTAGAAGTAGATGGGGCTGC
ATTACAACACACAAGCACTCAAGGACTCTCTGTAATATCTGGACTCATAGGAAGGTGATC

Table 1

ACAGCAAGAGGGCAGATGAAGCNGACTCAAGAGAAACAGATNAGACCAGAGAGACCCTGG
TTCTTGGTTTGTCTGAAGNCATGGNCCATCTNCTATTCTAGAATTANAGAGTTCTCTGGA
AAATTCCTACCANAAAAAATTTCTTTTGGNTTNGACGCTTAATTGAGGNTAATTTCTAT
TNTGGGCAATNTCAAAGNNATTCAANGAAAAAAGGG

Sequence 877

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTAAATTTTTTTTTTTAATA
GAGATGGGGTCTTACTATGTTCCAGGCTGGCTCGAACTCCTGAGCTCAAGTGATCCTC
TCACCTAACCTCCTGAGTAGCTGGGACTACAGGTGCANACCACTGTGCCCTTACTTCTA
TTCTTACTTGACAAAGGAGAGGAAAAAAGGAAGTTTAGAGAAATTAAGTAGTAACCT
GTCCAAGTTTACCCACAACCACTAAGTGGTAAAGCTGGGGTTTGAACCTCAGCAATGTGC
TTAAATCTCAGTAACTGAAATCACTATGGAGGACCTTAGGT

Sequence 878

CCCTTTGAGCGGCCCGCCCGGGCAGGTACATGTTTGTAATTCCTTAAATATTTATGC
TCAAACCAACATTTCCATTTATCTATCTTAAATATATCTTCTCTTTTACGCCTAAT
TTCTTAACTCCCAGAGTTTTTCTGTA .GATCTAGTCATCTGTAGCACTTCTCACAAA
TTAAGCTCTCTTATGCCCAAACAGTAACGAAAGAGGTCTCTTAGTTGGACAATAAGCAG
TGAAAGATATTTCTTATGGGACAAGAAATTAACATTATTAGTCAAATGTTGATGCCGGTA
GGCTGAGAAATGATTCTCACTTAAAGCCCTGGGTTTTAAACCTCTCTTAGAAAAACAT
TAGT

Sequence 879

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGGAGCTAGATCATCAAGGAAGGTCAGGGCA
GGTTTACAGGATGAGGGCACTTTGCCATTCTTTGTGATTTGGTCAACAAATGACACAG
GTTATTTACAATCTTGACCTTTTGGAAAAGATACAGCAGGTAATAGCCTACAGGAAAGAG
GAGGTAGAAAACAAGTGCCACAGTAGA

Sequence 880

CCCTTAGCGTGGTCGCGGCCGAGGTACATACAATAGAGTATTATTCAGCCTTAAAAAGGA
TGAAAAATCCTGACATGCTAAAATATAAATGAATGTTGAGAACATTATGCTAAGTGAAA
TGAGCCCATCTAAAAAGGCAAAATACTGTATGATTTCATTAAGTGATATCCAGAGTAA
ACAAATTCATAAAACAGAAAGTANAATAGAGGTTTCCAGGGACTGGGAGTTACTTGATA
TAGAGTTTCAATTTTGTAAAGATAAAAAAGTTCTGGATATTGGTTGCACAGCAATATGAAT
ATACTTAACACTACTGAAGTGCACACTTAAAGATGGTTAAGATGGTAAATTTTGTAGGT
GTTTCTTACCACAATTTAAAAAGAAATTTTAAATTAAGGAATTAATAATTTACAAAAT
ACTATTCATCATTGNGTTTCCAGTTTATATTCAACCACAGCAGTATTTAGGTATAGTAA
TTAACTTACTTTCA

Sequence 881

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACCACTGCACTCCACCTGGGTGACAGATCAAG
ACCTTGCCCTAAGAAAAAATTTAAAAAATAAAAAATTTAAGAATTTCTATGCCCTTTA
CCAGGCCAGCTTAATCAGACTTCTCTAGGCCTAGGACAGGCTTAAGATCAGTTAATTTAA
AACACTTCTGATGTTTCTTGAGCATTGAAAAGTTTTATTCTTTCTGCTTGTGTTTTCAAT
CTTTTGTGTTTGTCTTTTACTAAGGCTAGAAACACGTATTTGGTTTGGTTATCTGAAGT
TTAATTGCATTCATTGTGTTTATAGTATTTATCCCTGTAGTGTTGGAATTACCAGTCACT
TACATTCATATTTNAGTTTTTGCCT

Sequence 882

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTCTTGAATATTTCCAGGGCACAAGATA
TTCTTATACAGAAACCTCAGAAATGAAAAATAGCTAAGACATAAGCAGTGTTTCACAGAAC
CATCCATCAGTCTTTTTAGGATGTAGCAGTCTTCCATGTATCACTTAACCAATCATTAT
TCTTACCCCATCTTTTTGGGCAGGGGGTGGTAGAATTTAAATTTACCATTACTAAGACA
GGGTGATAGTAAGCATAGAATTTGGGATGTCTTTTTTTCTTGCCCTAAACCTTCAGA
GTTCTGCCAGGTGATTCAAATGTTTAAAGATCCCATAATCTCGCCTGTGTGCTCAAGCGAA
CACTAACACTTTAAAAAGTGGGAATGAAAAATCTGAACTGGTTGAATTAGACACAGTAT
TTGGCCCCATCTTTCAATTTAG

Sequence 883

CCCTTAGCGGCCCGCCCGGGCAGGTACTCAAAAATTTAAATAGCCATCTAAAAACATCTCA
GGTAAAAAATCTGTCCCTGCATTTGAAACCAAAATTTTTCTCACTAAACACATT
TTATTTAATAGTGAGGTGAAATTACATTAGCCCTCTCACATTTATTTGATTCAAACCTT
TTTTAAAAAATTAGATTCTTTAAAAAATAAATTAAGAAAAATGACATCATTCTCA

Table 1

GATAGCCAGCTACATGTGTAGTTTGATCATTAGTTTAAACCGTTTTATCACTGTTGATAT
GAACATTGAGTACCTCGGCCCGGACCACGCTAAGGG

Sequence 884

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTGATACATGTAAAGTGCAAGGCACCTTGCTA
GAGAGCATANGAGCTATACTAAGATATAGAGTCCTGCACAAATCCACAAATAACATGAA
TACAAAGTGTCTTAAAGTCATGCCAAATAAACAGANCATATAACTGGGCAGAGGGATG
GAGAGTCACATGCTGGAGGAGGTGAGCGTTGACATGGTCTTATGGGATATGAACCTTGAGA
TGTTGAAGTAGAACTGAGACATTTCTGGAAACTANATGTATNAACAGAAGCANGAGGAA
TAGGAGATGGTTTGGAAACATCAAGCAGCTCAGTTTCTTGGGGTGGTCCAGGAGAAAGA
AGCTCAAACAACATTGAGTGATAACACTTAAANNATCAAAATTT

Sequence 885

CCCTTAGCGTGGTCGCGGCCGAGGTACAATAACAAGACAGTGCCTGCTTGTGACCAGGG
GCTGGGCCTCTTCATAGCTCTTTCCCTGCCTTTTGTCTTCAGAGTTGATCTGCTTCTTA
CACATTCACCTTTTCAGAGTTTGCTATCTTAGAAGCAAGGATCATTTTTAATTGGTTTGT
TTACTTCAAAGTCCCACTCATCAGAGGCAGNTGTTTCGCTTATATTGGCTCAACTACTT
TNTCTGCTTGGTTTAGTAACACTAATGTTTACTAACATTAATAAAGAAACAGTTTGCAG
CTAGCATCTATTGACCAAATATAATTATTTATTTCAAACCTGTATATTCCAAATTTAAAC
ATATTCAATGCTTATTGAACATCTAAACATATANCCTTAATGAATAANGGGAAATATAA
CCATCTGGTTTTTGGATCTGAAAGCCACAACCCACCTGCTAGANTANTTTGGGGAAAGGC
TTTTTANTTCCAAGTTCAAAGGNTGAATCTCCCGAGGGNNGNNGGGGNCCTTCCCTTCT
NAACCAGCAANAAAACCTNCCAGTTTGGGATTTTGGGNGGAAAAATAACCCNAATGA
NGCATTTTACTTTCCCTTTTT

Sequence 886

CCCTTAGCGTGGTCGCGGCCGAGGTACATATGGCTCGGCCAAAGGGGGACTGGATTAATAA
ATTCTGGTAATATAGTAAGGACAAAATAAATGTAAAAAAGATAGAAGTAAATGGAGAACA
TCAACATGAACGCGTGCTCCTTTGAGTAGAAAGTAATTTTCTGCTTTGTCACTCAAAT
GCTGGCAGACCTGACATCACCTGCCTCTGCTTCCATGCTCTAAACCTTTCCCTGGGCCTC
AGATTTGGATGCTAATATGATTTTCCACTTAGTGGATAAGAGCTCCCTGGAGAAGGGCTC
ATTCTTGGATGGACAACAGAATTAGAGCCTGAGTTCTAAGAGCTTAATAAAACAAAAA

Sequence 887

CCCTTCGAGCGGCCCGCCCGGGCAGGTACCCGATGAAAGTTTAAATCTAATCAACAGTATT
ATGCACTGGTTGAAGAAAACAGGATTAAGACGGAGGATAGTCAGCATGGAATCTAANAA
GGGAAAAGTCCGNTAACTATATGTGTTTCATNAGATTCTAAAGCTGTTAAGGGAGAAAGAC
CCTGAGTCTAATGAATATAAACTTTAAATTTAAAGAAAAACATGNTCTGTTATAGAAAAG
TGGGCTTTTAANTTTTGTAAG

Sequence 888

CCCTTAGCGTGGTCGCGGCCCGAGGTACCATTAACCGTCTTTTAAAAAATTATTATTAGT
TTCAGTGCTGTTTCTTGAGGGAGCACCGGTGGTGCAGGTCAGGTTTGTCTTCTNAAT

Sequence 889

CCCTTAGCGTGGTCGCGGCCCGAGGTACTAAACAGGCCAGATATATTCTCTCATTAACCTTA
TTGCCTAGCAGAGAAGACCAACATTTTAAAAGTTTATACATATAGTTAATTTCTATTAT
GATTATATGATACAAATGGAAAGTGCTATGAAAATGTGGAACAAAAGAGAATAATCTGTC
TGAACAGTCAAAGAAGACTTCTGGGAGATGACATCTGAGCTAAAGGTTGAACAAGGAATT
GGAAAACAGCTGGCATGTGCAAAAGACTTGAANACTGAAGGAGTTAGCCTTTAAAAAAAT
GAAGAAAGTTCTATTGGCCAGAGCAGAGTTTCAAATAGTGCCTCACAGGCCACGTTAAA
GACCTGAGGCCTTTATTCTAGGAGAATAGGGAGCTGCTCAAGGAATTTAACTTGANAAGT
GACAAAGATCAGATTGCAATTGCCTTTCAAGGTGGTAGGTTACAAGGGAGTTGGGTCTC
TTGACCCTTTGCAAATTATACCCCATTTCTTAACCTAAGAAATGGG

Sequence 890

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTGCTTGCAAAATTATATTACAAGAAGAAG
CACACTTGTTATAGAAGTGCTGAATTGTATGGAACCTAAATCTGTCAAGTTACCTGTCTT
TCAGGTCCGTCTCCCACTCCAGACCTCATTATATTATCCCGAAAAGAACACGATCTC
TTTAAGGCTAGGCAAGTATTGCGCTGATGAGCCAGGGACTGCCCACTTGGCAGGCCCC
ATTGGGTGATAAATGTCCAAGGACCTCTAGGCTGACGACACATTTTTCATCATTAAATCCA
GTCTATTGTAACCAGGGCCACTCACATTGATTGCGACTAGGGGGCATCATCTGCTGTAA
AGAGGGTGATGACTCGCTAAAAATGAGGG

Table 1

Sequence 891

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCACTTCATGGCTAAGCATGTGCGGGATGGAA
CCGGTCTTCCTGGGCTTACATCTTTGCTTTGCCTCTTCTTCTGTGATGAGTCTTGGGG
TAGGCCTCAAAGGCTGAATCTTCAATATAAATACAACAGTGAATGAACAACAAATGGTTA
TTTTAAAGATCTATCTTGATGGCTATTTAATTTCACTAAACCCAGGTTGCTCACCTGT
TGAAGTGAACAAACAAATAGTCCCTTCTTCATGCGGGCATGGTGAGGGTTTTAACCCCGCA
TTGTCCACAAAGACCGCTTAAATTATAGTAGATGCTCAGCAAATCTGAGCTATTATTTT
ATCAGGACTGTGAGAGGTGAGATCAGGCTTCGGGGTCAAGACACCTGGGTTCAAATCCC
AGCAGGGCCACTTACTGTTGGAGCCGGGGCAAAGTCAGTTATTCTCCCTGAGGGTCAGTT
TTCTCATCCCTAAAAATTCC

Sequence 892

CCCTTCGAGCGGCCGCCCGGGCAGGTACTACAGAACAGGAACAATCTGCCATGTGTGTTT
ACAACCTTCAGAAAGCCCTGGAATGACAGTTGCCAGGGCAGTTCTTTGAATTTGAGGTCA
GAATTAGTGGATGATGAATTTTTTACACATGGTCAACTCTGTGCCACCTGCTACAAGA
TGTTGGAACAGGTATATTTATTTAATGATGATCAATGATTCTTCAACATCAGGGA
ACATCAGGGAATCAGCTAGTATATGCTCTTTTGAGGATTTTCAAGCTCCAAATCCTGAA
AGCATTCATGAAACTACATAAACTACTTTTGTAAAGCAAATCATCATAAGTAAATCCAGT
CATATGAATCTGGAAGGATTTGCTGGTGGGCACTAACCTGACCACATGTTTCAAGTGTG
GGCAAGTTTACCATCCATCACGGATTTGTGCTTGGTGAATTTAGGGAGTGAAAGAGAG
AAGGATGTTTGGCCAGTTGTCTTTTACCTATATCTGAAATCTTACTTAGTCAAAGA
ACAAAACATTTAGACATTTTCTTTTGGGGTTTTAAGTGATACATGTTTAAAAAT
TGATATTTTGAAGAAAATTGTTTTATTATATATAATTTATTAATTCNGGNGGAGA
AGACCAAATTTATCCTGAGNAAAAATTTAAATTTGAAGNTTAGGTTGGCTTTTTTAAN
ACCCNCCGGCCNAACCCCAAC

Sequence 893

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTAGCATTAAAAAGTCCTACAAATTATTAGA
GAGAAAATACAGGTTGCACGCAAAGCATAAAGAAATGAGAATGGCATAAGACATCTTAACA
GTGCCACAGAACTAAAAAGTAGTTCTGAGTAAAAATGAACTATTTACCCAGCCAAACCG
TTAATTAGGTATAAAGGTAGAGTTAAGACATTTATAGACATACAAGATATTAAGATTACT
GAGTCAATTGATATTCAACAGGGGTGCAAATGGAGAAAAAGTCTTTTCAACAAATAGTGG
TGGGACAAATGGATAGCCACATGCAAAAGAACATATATATAAGAGCTAAACCAATATGC
TTTTAGAAGAAAATATAGGGTTTATCTTCATGACCTTGAATTTGACAAAGGATTCTTGG
CATGACACCAAAAGCACATGCAACAAAAGAAAAATTGGAGTGATATG

Sequence 894

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGGTCACACAGCACATCAGTGGCTACATGTGAG
CTCAGACCTGGGTCTGCTGCTGTCTGTCTTCCCAATATCCATGACCTTGACTGATGCAGG
TGTCCAGGGATACGTCCATCCCCGTCTGCTGGAGCCCAGAGCACGGAAGCCTGGCCCTC
CGAGGAGACAGAAGGGAGTGTGCGACACCATGACGAGAGCTTGGCAGAATAAATAACTTC
TTTAAACAATTTTACGGCATGAAGAAATCTGGACCAGTTTATTAATGGGATTTCTGCCA
CAAACCTTGGAAGAATCACATCATC

Sequence 895

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGGTCACACAGCACATCAGTGGCTACATGTGAG
CTCAGACCTGGGTCTGCTGCTGTCTGTCTTCCCAATATCCATGACCTTGACTGATGCAGG
TGTCCAGGGATACGTCCATCCCCGTCTGCTGGAGCCCAGAGCACGGAAGCCTGGCCCTC
CGAGGAGACAGAAGGGAGTGTGCGACACCATGACGAGAGCTTGGCAGAATAAATAACTTC
TTTTAAACAATTTTACGGCATGAAGAAATCTGGACCAGTTTATTAATGGGATTTCTGCCA
CAAACCTTGGAAGAATCACATCATC

Sequence 896

CCCTTAGCGTGGTTCGCGGCCGAGGTACCTTGAGCTGCCTCAGCACTCTTTGCCATTCTGTG
CTAGAAACAGCCAAAGCCAGACAACCAATTACAGATGCTTAAATGTTAATGCCAGACAC
CAAGGCTCCGTGAACCTTCCCTGTTGAACATCTGACCCCGACTACTTGAGGACATGAAACC
TAACTGTGCAGCTAATTACACCTTCCAAGGGCAATGACATCGGGTCTTATGATTTATTC
AGGAAAGCAATAAGGCAATCGGGGTCACTGTGAACATCATTTGAAGGGAAGTAACTTCT
AGCTTTATTCCACAAATGGTCTAT

Sequence 897

CCCTTAGCGTGGTTCGCGGCCGAGGTACCGGTGTAGTGTATAGAATGGTTTGTATCAAAC

Table 1

AGATCTACATTACTTTACTAGAAATATAGGGCAATAATAAAATTTCCAAAGCCAACTGA
ACGATAATATATATTTCTTTAGAAAGTCTCAGAAAACCCATTCTGAATGACAAAACGGA
GAGATAACTTACAACTAGGTGATATCTGAAGTTAAATTTCTTGTTATCTATTTCAAAA
ATTCACAACTATTCTGCACTAAATGTTTCACTGGGTGAGGCACAGTGGCTCATGCCTGT
AATCCCAACACGTTGGCAACCTGAGGCAAGAGG
Sequence 898
CCCCCTCGAGCGGCCCGGCCCGGGCAGGGTACCNCGGGGTNGGACTCTNTGGTTTTTNA
ACCTTATGAACCATTAACCTTGGGAACCCCGGCAAAANTAAGCCTNNGGGGGCTTGAGGGG
ACTTTTANGANNNAACNNTTAAACATTTGGTNTNNTTNAAAAAAAAAATTNCAGGGTTN
CCGTNCCTTTTCCAAAGGGGGGAAAAANGCNCNAACNTTTTTTTTTTTTTTTTC
Sequence 899
CCCTTTGAGCGGCCCGGCCCGGGCAGGTACTGACAGATGCCTGGGTAACCATGTCCAATGT
TCAATTTACTTTCTGCTGGACAGATAGAAGGCTCTCCTGCAGCCTTTTCGCTTCGGGTG
TCCGCTGGTAAGAAATCCGCCACACAAGAAAGCACTGACATTTGGAGCCTCATCAGGTTC
AGAGTTGAAAGTGAAATAAAGGATAATAATCTTTGTCTTATTTTCTTTGTTTAAATGTTT
CCCAACTTACGTTAGGACAATGTCAACAAAGACAGATGTCCCTAATAGTAATTGCAGGAC
ATGTGTTTTCTCATTCCTATC
Sequence 900
CCCTTTGAGCGGCCCGGCCCGGGCAGGTACATTGGAGGGGGCCATATCCAGGACCTGTGATG
TGTATAGGCAGACCACTGGTAGGGAAGAAAAGCAGAGATATCAAGTGGGGGACATGTG
TTTGCCCTGGGGCTCTATTGGCCTGGAATTTTGTGGTAGGAGGAAGGCACAAAAAGTAGA
CTGGGATTACAGGCGTGTGCCACCGCGCCCGCCCTAAAGTGTGTTTTATAATAAACCTC
AATCTGAAACATTTTATAAAACCTTTAGATGACTAGATTTATGTTTATTTTGGATTAT
GTTTATATGAATAAAAAAAGAAAAAGACGAG
Sequence 901
CCCTTAGCGTGGTCGCGGCCGAGGTACCTATGAGATGCATTTGAAAACCTACCTTGTTA
TATGTTTCTTCTGTTGCAATTTCTTCCATTACCTGGGAATAGCTGCTTTGGACGGCAAC
CAAGCAATGCCCTTTCACAGCTGTGGGATGAATGGGGAAGAAAGTCTTGGAAGGAAGCA
ATTCAGAGAACATGGGAGCATCTCATGGCAGCAGTCACAATTTTGTGTTGCGTAATATT
CAGGAACCTGCAACCCTGATAACTTGTGCCTGCCTGTCTGTAGGCCTTAATGATGTTT
ATTGAATTTTGG
Sequence 902
CCCTTAGCGTGGTCGCGGCCGAGGTACTTCTATACAAGGCAAAATGAACTCTAAGTAAAA
AAGAAAATCACACTTCTAAACACAAATTAACCATTTTCACTATTTAATTGCTCTAAAGG
TGTATTCTACTTCATTAATGTAAGAGAAAAGGTTACCTACATTACGCAGTTTAAGAAAC
AGGATAAACTTTAGCATATAAACCACTGTTGATTACAATTTACACTTTCAACCATCTTA
TTTATACCTCTACATTAGATAATCTTTAAATTTCCATCATAAGGTTTTCCCATGGTTAAC
CTNCCATATAAAATTTTGGTAATCCTGCC
Sequence 903
CCCTTAGCGTGGTCGCGGCCGAGGTACTGGGTGACAGGAGAGAGCTCATGTGACCCGAGT
CTGGGTGGTCTCAGGCATGGTATAAAGAACTAGGCCAACCAACTGCACTAGACATAGAAA
CTAGCTGAATAAACTCATCCACTCCGATTTTCACTTTCAGGTATCTCATGAGAACTAGAGG
ACAAAAACAATTCAAAATTAACAAAAACAAGTTTACTCTAGCCATCAGTGCCATGAAC
ATAAATGACTGCCTGAGAGTTATATTAACAAAATAATTAATTGAGACGAATTAAGGAATT
AAACCAGCTATGGGAAATATACACTCTATACTTAGATGCACATT
Sequence 904
CCCTTTGAGCGGCCCGGCCCGGGCAGGNACTTAAATAAAATAAAATTAACAAATCATTT
TAGAGATAAAGAGTGAAGTTACTAGAAAAAGGTGACTAGGACTCTGTTTATGAAGAAAGG
TTAGTATTTAAATCATGAAAAAAGTAAGAATACTTAATTATTCAAGTAACCTAAATTTG
TAATTCAGAATGGCTTTTATGTATCTAAACAATCTGGGCTGCTATAAAATTCAGTCAA
CTTCTAACTTCCAAACACAAAATAGTTATACTCAGTCTAAGAATATCCGACCTACCGTG
CAGGACCAGAGGGCTCATCTC
Sequence 905
CCCTTTGAGCGGCCCGGCCCGGGCAGGTACTTAAATAAAATAAAATTAACAAATCATTT
TTAGAGATAAAGAGTGAAGTTACTGGAAAAAGGTGACTAGGACTCTGTTTATGAAGAAA
GGTTAGTATTTAAATCATGAAAAAAGTAAGAATACTTAATTATTCAAGTAACCTAAAT

Table 1

TGTAATTCAGAATGGCTTTTTATGTATCTAAACAATCTGGGGCTGCTATAAAAAATTCAG
TCAACTTCTAAACTTCCAAACACAAAATAGTTATACTCAGTCTAAGAATATCCGACCTAC
CGTGCAGGACCAGAGGGCTCATCTCTTGCCGAGCTTAATACAGTTT

Sequence 906

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTGCTTTAAATGCATACTAAGCTGTGAATGA
CTGATATCAGAGACTTTCTTGGAAGTAGGTTTCATAGGATGGAGGACAAATGAACTTTA
TGGGCGAAGAAAGAAGGGTCAGTTGGGTGGTGCAATTGAAATAAGTGGTTCCAAAAGCAAA
CTAGGTCAACTTTTTAACTGGCTAGTGAAAATGAGATTCTCAGGATACAAAAGCAAGGA
GAAGACAGGAATAAATCAGGACTCCAACAGGCAGAACAGGATTTATTTAGGGCATGCAAT
GTGGAGGGCCCTAATGGGAACATGACAGTGT

Sequence 907

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATTGCATTGTCAATTTATATTTGTTTCCCCA
CTAAAGCCTCCAAACCTTGCTTGTGTTTAAAGTATCCCTGGGGCTCATCACAGGGCCT
GTTGAAGTTCTTTTGAAATGAATTGAAGAATGTGAATAATAGTTCTAGTTCTTCGGGATA
ATGGAAAGCTAATAAGGTTTATGCTAGAGGCTCTTACTGCTGGGACTCTCTTCTGTTTT
TGGTTTTTAGGAAAAAGCTAGAAAATCCAACCTCAGCTAGAGTAACAGTAGTAAGTACG
TTGAAAGTATGTCAAAACAAACTGTTAA

Sequence 908

CCCTTAGCGTGGTCGCGGCCGAGGTACCTATGAGATGCATTTGAAAACCTACCTTGTTTA
TATGTTTCTTCTGTTGCAATTTCTTCCATTACCTGGAATAGCTGCTTTGGACGGCAAACC
AAGCAATGCCCTTTCACAGCTGTGGGATGAATGGGGAAAGAGCTTTGGTAAGGAAGCAA
TTCAGAGAACATGGAAGCATCTCATGGCAGCAGTCACAATTTTGTGTTGCGTAATATTTT
AGGAACCTGCAACCCTGATAACTTGTGCCTGCCTGTCTGTAGGCCTTTAATGATGTTTTA
TTGAATTTTGGT

Sequence 909

CCCTTCGAGCGGCCGCCCGGGCAGGTACCCTCTTCTCAATTTTGCTATGAACTTAAACT
GCTCTTAAAAAATATTTTTTTTAAAAAGGAGGGNGTTATTATCAGAGATCCCATAGAC
CTTAAAGGATAATGAAAGAATGCTATGGGATAACCTTCATGCTAAAAACTTCAACAAT
AGAAGTATGAAATGAATGAACNTCTCCAAAAAATACAAGTTACCAAATTGACATGA
ATAATAACAGAAAATNTNGANTAACGCTCTAACTATTAAAGGAACGTGAAGTTTGCAAA
AGCTTCCCCAAAATAAATTCAGGACCAGATGG

Sequence 910

CCCTTCGAGCGGCCGCCCGGGCAGGTACTCAATGGGGTAGGGTGTCTTGGGATCTGACT
GTTTCTTAGACCTTCAATGCTTCTTGCTTTTCTCACTGCTAGTTATAATTCAGTTTTCT
CAGGTCTAAGTCATTCATCACTCTTTTGTCTGCTTTTTCAGCTTCCAAAATTCATTGCTA
TTATCTCCTCTCCTGTTTTCCCTATTGGTGTGTTGTNTCTTTTTCTTAAAAAATTC
TTTGTTG

Sequence 911

CCCTTAGCGTGGTCGCGGCCGAGGTACAACCTAGCCAGCTGCACAGCAGCTCTCCAAGAA
AAAGGTGTATATTAGACAGATTCAATTATTCATCTTGTGATTATGAGTAGTAACCAAAT
GTCTATGTAATTTCTTATGGTGAACACCCAAAGCAAGGCCTCACCTTAGGCTACCAGC
TTGACTCTTAAGTGGACAGAAAGAGCCAAAGGCTAAAAGTTTGTGAGAAACCTCATGAG
CACTGAGTGTCTAGTTCCAGATGAAAACCGTTTCAGGTATGAAGCAAGAGGGAGTGCT
AATTGGTAGAAGTAATTACATCTT

Sequence 912

CCCTTAGCGGCCGCCCGGGCAGGTACAACAGAGCACAATGCTTAGATTTGGGTGGATTG
AATAAGATGAAAGATAAATTATGATTTTGTTCAGTGTTAAATAAACTAAGACACTTA
AGGACCACAAAATTTAGACCAAAGTATCTTGTAATTCTACCTGGTGAAAGTTTGATAT
AGCACACATATGACTTTTCTATATTATTTTCTGTTTTGAGTTTAGTAGTAAGCAGATGGT
TTGTATTTTCTTTAGTTGCAACTAAGTGATCAGTTTCATGATTTCTTACTATGAAACA
TTTTTTTTTTTTCTTAACAGTTATCTT

Sequence 913

CCCTTCGAGCGGCCGCCCTGGGCAGGTACCACAAAGTTATTGCCTACATCCAGGTCAAGA
AGATCTTCTACTGTATTTTCTTCTAAGAGCTTTTACATATAGGTCAATGATCAATCTAAA
ATTAAGAGTTGTGCAATCATTAACCTAGCTTTAGACTGGTATACTAATTGGTTTGATA
CGAACTGGGTTAAAGGCATAGGACACATGCAGGCTGTGTTCAATTCACAGCAGGGCTCTG

Table 1

TAATTAGGCAATAATTACTTACCATCATACCTAGTGAGGCAATATGGGAGAAACAAAACA
GGCCATACAGCTTCACTATTATTCCTACT

Sequence 914

NNCACCCCTAGCGTGGNCGCGGCCGAGGTACTTGAGGACCAAGCCACAGAGCAAGCGCTA
AAAAAAAAGTTAACTAGAACCTTACCCTNTTNCACGCACCCCAATTNCATAAAATGTAT
CAGNAAAAAAACAATNATCTAAAGANAAAAAGNAAAGAAAAANNATNNANCACATAG
GNAACNGGGTGTCACTAGGNAACNGACCTATANNAANNAGGAAGANAGNGNCTNCCTT
CCTCAATNNNCAGANNNACGGAGGGGAGGCTCAAAGGCCCGAGAGGCTCNCTACAAGGA
GAAAG

Sequence 915

CCCTTAGCGTGGTTCGCGGCCGAGGTACCAGAAATGGTAAATATATGAGTAAATATAACAC
ACTTTTTCTTTTAAATTTTATTTAAAAGGTAACACTTTGCAGCAAAATAATTAACAAT
GTATTGTGGGTATATAGTAGTAAGATGTTTGACATAAATTACATAAATAATTGGAGCAG
GGAAATAGAAAGTGTTGTTGAAATGGTTTGATATTATATGAAGTGGTATATTATTAT
TTCAAGGTAGCCTTGATAAGTTAAAGGTTACATATTGNAACCCCTACAATAATCATTACA
AAATAAAGAGATATAACAGNAAG

Sequence 916

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTCATAGAGGTCCAGACCCCTTGCCTCTGGCAT
TCCTTTGGTCTATAATTCACTAACTCTGCTAAAAAGGAAACGAGACTAGCTTGCTGTGG
CCCCTTAAGCGACCCAGGGTAGCTTGATGGTTCAGATTATGATTTGTTCTAGAGCTTT
TCCAGAGGCAGATGTTGAGGAGTTTATCCTATTTGNCCTTNCCTTTAAACAAACAAAA
GTGCCGGCTGGACGCANTGGCTCATGCTGGTAATCCCANCTTNTGAGAGGCTNAGGCAG
GCGG

Sequence 917

CCCTTTCGAGCGGCCGCGGCCGAGGTACTGCCTGGCATGCATCTTCTCGATGGTCTGTT
ATCTTGTTGGGAATGACATTTCGTTAAGTTGTTTCTGTGTGCATCCCACCCAAATAAGAA
TGTTTCATCAGCAAAGTGAATTGCCGTATAGTCATCAGACTCTAGAAATAAATTATCAAC
GATGACTGCAGTGGGTGAGGCTGTTTGTTCATCATCACTTGAGAACAGAGTAAAGTGA
GTTTCATATTTTCTGAGTCTTGAATTCTCATTTTAGACATCTGTTCAGAAGCTTTCTAA
GCCATGGAGTATTCTAAATGAGC

Sequence 918

CCCTTAGCGTGGTTCGCGGCCGAGGTACTACAATTATAAAGTTACCAATAACTTTACATTA
AGAAAATCATTTTCTTCCCCTTGAACAAAGTATGTCCTCACTTTCCCTGCTCTTTTAT
TCATGGCAGTATGAAATGTGTCCCTGATTCCCTCCGACCTGCCACAGAATACTGAAACAG
TGGCCGTGGGAAGAAATACCAGATGGTATGCATATGGCTTTGGGAACAGCTTTCAGCAGT
GGTCACTTGTCTTTTTTTAATGCATTTCAAATGTGTTTGGTTAGCAAAAAATAATGAGA
TAATCCCTCAAATAATG

Sequence 919

CCCTTAGCGTGGTTCGCGGCCGAGGTACAACAATTTATCCATTCTTTAGCAATAGTTGGA
CACTTAGAATGTAAACTGTTCAAACAAATTGGTATATTGGAGTTGGGTAGAAAGAAGG
GCCGTTGGAAGAGGAGGAAAAGAGGGTGAGATGATACATTAATATAAATTACTGAAAGGT
GGTGTTACATTTAGAATTTTTTTTAAAGTTGCATGTTTAGGATTTAGTGCTCAGGAG
GAAAGAAGGCCAGTGTGCCCTTCCAGACCATCGCTGCCATTTCCCTGTAATATATCGTG
TGTAAGGAACCTAATGCCTGCA

Sequence 920

CCCTTAGCGTGGTTCGCGGCCGAGGTACTCGCTATTTCTAGTTCAAAATCACAGATTTTCA
GATTGAAAAAATTTCAATCCACTTATTTTTCAAATGAGATAACTGGGACAAAGAGAAAT
CCATGACTTGCCCAAGATTACCTACAGTTTAACTGTCAGCGGGGCTTAAACCAATCC
ACATCTCCTGACTCCCAATCCTTTCACTTAAACAAACAAGCAAAACAAACAAAAAGATT
TCTAATAAAGTGAATAATTNTAAGAAAGGCAAGTATCACTATTTTAC

Sequence 921

CCCTTAGCGTGGTTCGCGGCCGAGGTACTCACATGTAAACTTCTACTTTCCCTTCAGATT
ACAGCAACCATCATGCCAAAGCTATACACTCTCAGGGAATCCCTGTGGATTTCACTGATG
ACCACTTGACCAACTATCATAAAGATCAAGGCCAGGGGTTCTCAAACCTCTCAACATTTGT
GTGCTCATCTCCCTTACCCAGAGACTCCCCAGGGCTGCTGGGCCACACTTTGGTTTGT
TTGACTGGAACATAGTTTGAAAGGGATGGAATTTCCAAAAGGTGTTAATAGACACATAA

Table 1

AGATTTTAAATATTAATAAAAAAGAAAAAGAAAGA

Sequence 922

CCCTTAGCGTGGTCGCGGCCGAGGTACATACAGTATGCACTCCCTTCTCTGTGTTTTTG
TCTGAGTTGATGATTTGGAGCTCAAAGAGCTAGCGGAGGGAAAAAGCTGAAGCCATTCAA
CACATAATGAGAATTGGAGATGTAAAAGAAGGCTGAGTTCTAGGAGTTGCAACAACCTTAG
GAGATAACAGAACCAATTCGGAATGAGCAGGAATTGTAGGAATGCAGGCGAGGACTAGAA
GAATCAGCTACATGCTGTTTACTGGCAAAGCAGGAGAAATGTGACTGAGGACAGTATGCC
ACTGAAAACCTGATGAAAGAGGAGGGAGACAGGAGG

Sequence 923

CCCTTAGCGTGGTCGCGGCCGAGGTACTGTTGTCTCATGCTCTCTTTCTGTTAATAGCAC
CTCAATTCTACTCTGGGGGACATTCTCTCTCTTTTTGGTCTGGAATGTCCCCTGGCTT
CAGGGACAGCTCAACATGGGCCTGGACAGTCAAATCCATCCCCAAGCTTGGGACTCAGG
GAGACCATCCAGTGACTTGTTCCTGAAGTGCTGGGAAGGCAGAGCNTCTTTCTGCGGGG
TGCTGAGTGATGGGACGACAGNGTGGAGCTACTGNGCTCTCCAAGCCGGNGCCAGGACC
AGCCTGCCTGAGAACGAAGCCAGC

Sequence 924

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTGCCTTGCAAAATTATATTACAAGAAGAAG
CACACTTGTTATAGAAGTGCTGAATTGTATGGAACCTAAATCTGTCAAGTTACCTGTCTT
TCAGGTCCGTCTCCCCACCTCCAGACCTCATTATATTATCCCCGAAAAGAACAGATCTC
TTTAAGGCTAGGCAAGTATTGCGCTGATGAGCCAGGGACTGCCACCAATTGGCAGGGCC
ATTGGGTGATAAATGTCCAAGGACCTCTAGGCTGACGACACATTTTCATCATTATCCA
GCCTATTGTAACCAGGGCCACTCACATTGAT

Sequence 925

CCCTTAGCGTGGTCGCGGCCCGAGGTACCTACTGTGTTGAGCCCTCTTCCATCTCCTGTA
GTTTCGTGAGATCCTAGGAAGTGCTCCCTGACGGAGAAGTTTTACAAATGAACTTCGAAC
TGAAGTATCCCGATTGAAACGGAGATCTAAAGATCTGAATTGCCTTTATCCGAAAAAG
ACTTGTGAAATCTGAAAGTTCAGAGTCTCTTCTTCTCAGACAANTGGTAATAGTAATCA
CTATCATCATCATGTGACATCCANAAAGCCACAAACAGAGCGGTCCTTACCAGTGACTTG
TCCATTGGTTCCAATTCCTAGC

Sequence 926

CCCTTAGCGTGGTCGCGGCCCGAGGTACCCAAACACAAGATTGCTAATAGACTGCTAATAA
TAGAACTTAATAAATGAAATAATTTATTTTCATTTATTGTTGCTTGAATACAGAAAGTGC
TTAGTAAATATTGAATGAATCAACAAAGTACCTCCCAATATAGAGAAATCACTTCTGAAA
AGGATAAAACCAAGTTGATCCTATTCAATCGAAGGCATCTTTGGGGCTGTTACAGTTAT
TTCCTTTATTTGAAGAAGGAATATGATATACCTACTTTGTTCCAAGTCACTGCTTATAAT
GTGCTAATGGTACCT

Sequence 927

CCCTTAGCGTGGTCGCGGCCCGAGGTACCTGTGAAGACAGCTACACCTGGTTTCCTCCCTC
ATGCCCTTGATCCCCAGAACTGCTACCTTCACACGGCTGGAGCACTCCCAAGCTGTGAATG
TCATCTCAACAACCTCAGCCAGAGTGTCAATTTCTGTGAGAGAACAAAGATTTGGGGCAC
TTTCAAAATTAATGAAAGGTTTACAAATGACCTTTTGAATTCATCTTCTGCTATATACTC
CAAATATGCAAATGGAATTGAAATCAACTTAAAAAGCATATGAAAGAATTCAAGGTTT
TGAGTCGGTTCAGGTCACCCAATTTGAA

Sequence 928

CCCTTAGCGTGGTCGCGGCCCGAGGTACAAGAAAGAAAACAAATACCAAGTATTTACAGAT
CCAGAGAAAGTTCACAAGAATGGGAGGATGCCAGTTCCAATGCTTTGTAAAGTCAAAAAT
AGCCACATTGCAAAAACAAACAAAAAAGCAGAACGTTCCCGAGTGTGCCTCCAAAACA
TAAAGGAGAAAATCATACAGAAAAACCTCATGTAAGGGTTGGAACCTGAGCAACCAGCTA
TCCAAATACAGAGGGGAATCCTCGCTTAGCTAGGCGCATGGCCTGAGAGAAGCCCTTCTCT
GCTTTCAGAGCCTACAAGTAGTCCCCA

Sequence 929

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTAAGCAATAAATCTGAGCAATTATCAGGTTAT
TTTATTGCATTTCTAATGAGTCTTCTAAAAAAGTCAATCAATTATCACTGCTATATAT
GTTCTGTGTGTAAGGAGTGCTTGAGAGTCTTTAATTGTAACATTTATTAATAAGAATAA
GAGGACATTTTTAAAGGAATTAAGGAACATTAATTCCTTCATAAATGTATAGTGCTTAA
GCTCTGCTTTAAAGGTCTTTCCATGTGCTCTTGGGTAACCACTTAGGGCTGAATTCATA

Table 1

GTATAAATATCAATAAATGTTGCAATCACAA

Sequence 930

CCCTTAGCGTGGTCNCGGCCGAGGTACGCGGGTGGGAAAGGGAGGATGACTCACTTACTC
TGAAATCTGGGCCCAGGAAGGACCTCTCCCATCCTTGGAGCCTCCTCATTCTCCTGTCTC
TCACNNGTCCCCCACCTCTACCATGATGTCCTCATTCTGGGAACCCCGAGCAGGGATAG
TGGCTTGGGCCCCTTCTGCTGGCTTTTCTCCCCACNCTTTGCTCCACTTCTAACATTTTTC
TNCCTTCACTNACATGAAAGGGACAANGGGTTAACCCCAAGNAGGGAGGGCAGAAAACA
ANGNNCCCCACATCCTGGCTNTGCCTTCTGAC

Sequence 931

CCCTTTCGAGCGGCGCCCGGGCAGGTACGCAGGGATTTANAGACAGGGTCTGGCTCTTT
TGCCCAGGCTGGAGTGCAGTGAACAATCATGGCTCACTGCAGCCTCACCCTCCTGGGCT
CAAGAGATCCTNCCACCTCAGTCTCCCTAATAGGTAGAACTACAGGTGCACACCACCAG
CCTGGCTAATTTAAAAATTTTTTTATAGANACAAGGTCTCACTATGTTGCCACACTGG
TAAAGTATTTTAAATTTGAGACATGAATAATGATGCAATCATCCTTTNTATGGGTCTG
ATTCTGTTCTGTTACCTTATTCAAGGACTAA

Sequence 932

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTGNAT
TTTTAGTAAACACGGGTTTTGCGCGTGTAGTCAGGATGGTCTCCATCTCCTGACCTCCT
GATCATCCGCCTTGGCCTCCCAAGTGCTGGAATTACAGGCATGAGCCACCGTATNTGGCC
ANANAAATTTTTAATATAAATTTTTTCAGTTACCACTTAAAGGGAATATGATTAAAA
AACTAAATAAAGAAGAGCTTTAGTAAACCATGCCCTCTTGCTAATCTATTAANAGTCAA
ATCTGAA

Sequence 933

CCCTTTCGAGCGGCGCCCGGGCAGGTACAGTATGTTTCCACTTATGGACAGATAATTAC
GTAGTAAACATAGAAACACAGAACTGAAAGGACACACACCAGTATCAGAACTAAGTCAC
CCATGGGGAGGGACAGAAGGAAATAGGATGGAAAGGGTTGAGGGACTTCAACTGTATTT
GTGATGTTTTAGTCTTTAAAAACAAAATCTAAATGACATTTGAAATATGAAACAAACGC
AGAAAACATCAAAATGTCAACAATACTTAAACCTGAGTGTGGGTGCCTGAATGTTATAT
TGGTCTCTGCA

Sequence 934

CCCTTTCGAGCGGCGCCCGGGCAGGTACCCAGTATATGAGCAATTGCTCAGCAGTGTTT
GGATATAGGGAGTGGATAGCTATTATTAATTGCAGATTATTTTGGAAAGGAAAAACACACA
GAGAATTATGTATCTTTCAAGTGTAATGTTAGTTCTAAAAACAATCATATTATTTACAAA
GCTGCAGTTATAGAACACAATTCTGATTCTGCCTCACCCCCACGGTTAATACTGTAAAA
CATTTCCTACGTTTCATCTGATAGTGTATTAAAAATAGCTGTTATTTTAAATAGCTATA
CTAAACATAAAAAATGTTTAGGCCAGGCGT

Sequence 935

CCCTTAGCGTGGTCGCGGCCGAGGTACCTAATTCATAAGATAAGGATTAAATGAATTAA
ATATATAAATCCCTTAGATAACAATGCTAGGCATATGTTAAGCACTATGTTAGTATCATC
AAATGTTGTTGTTACTGTTATGGAATTTATCACAAATATGTAATTATATGTTTCGTAGTG
ATTATTCATCACCCCTACTGGACTCTAAGGTCTGTGAGGATATGTCTATTTGGTTACCA
CTGTATCCTCAACAACCTGCTGGTTGTCCCTATTGTAGGTGTTAGGTATTAAGTGCATGAT
AGTGAATACATAAAGGTT

Sequence 936

CCCTTAGCGTGGTCGCGGCCGAGGTACTACAGATTAAGTATTAATATGCTGTGAGTGCAG
ATAGAGAACAGAAACAGGCTGTTTGATTTACCATGGTCAATGCTCTGATGTGCCAAACA
CAGGAGGTTGTGGGAACATATAGACAGTGACCAAACCTTTAATGAATACAGGAAGATTTT
CTGGAAAAGATGACATGTAGCAGACAGCTGACAGACGAGTTTACCAGGTTACAGAACTTAA
GTGATAATAATCTTTTATCATAAAAATTTAAGTGTGGTAGAGAATAAAAGTTTTGAATT
AAATGTTGAATGAAATGTGTTAT

Sequence 937

CCCTTTCGAGCGGCGCCCGGGCAGGTACACTAAAAATAGAATATAAGGCAGTGAAATCA
AATCCTGGCTCACTTGAAGAAATAACAGTCTGTGGGCAACTNGGTTGTTTCTCAGGTCAC
CTCAGGGGACAGATGGTCCCTAAGGTGCAAAAGAATGAAGTGGTGCTGATATATGACTGA
TAAGTTTCTGTACGGGCCACTGACCATTTCATTCCTCAAGGAACATAAATTACCTTTTA
GCCTGTGATTTACACACAAATATGCAACCTGCAAACTTCTCTGAGGACAGATGTCAAC

Table 1

TACTTTTTCATTTTTTTTTTACAGTCAAA

Sequence 938

CCCTTAGCGTGGTCGCGGCCGAGGTACCAAGTATACTTCACCAGATATCTATAGAACATT
CCACTCAGCAACAGCAGAATCCAGCAGAATATATATTCTTCTGAAGTGTATGTGGAACAT
TCTCCGGGATAGACCATATGTTAAGTCATAAAACGAGTTTCAATAAATTTAAAGGACTG
ATATCATACCAAGTATGCTCTCTGACCAGAATGGAATGAAATTAGAAATCAATAACAGAA
GAAATTTGGGAAATTCACAAATATGTAGAAATTAATAAACACACTCCTTAAACAACCAG
TGGGTCAGAAAAGAAATCACAAGG

Sequence 939

CTTCCATACTCTTTTAATTGGATATGCCAGTGTGTNTCANTAATTTCCAGTGGCTGTAAA
ACTTTGAGAAATTTGTAGCTTTTAGAAACCACATACCTGTATTGCCTGATTGCTTATTA
AGTGATCTCTTAGAGGTTTCCAAAGTTATGAGTTTGAGTTTACAAGTGCAGTTTTTTTCC
ATGAAAATTTCAAGTGGTGACAAATTATAGAATTTATCATTCAATTCAGTCTTAAGTAGAA
ATAATTGCATATAATAAACAGGTTCTTGACTGTTCTTT

Sequence 940

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTGCCACTTCCATTTTGAAGTGAAGCCCAGA
GAAGCAAAGAAATGTGCCCTAGGTCACATAGCTAGTCGGTGCGCAGAGCTGTGATTGGCAG
GTTGGTGAATGCCTCCAAAGCCCTCGACCTTCCCACTATACTTCACGCATCTCTAGAGA
AGAGACAGAAGTAGCCAGGATGAAGGTCTTCAGGTTTAAGAAGAACTATGAAAAAGCAAA
AGATTTTGTGTTTCGTGGTTTTTTTACTATAAAGGAAAACTTTAAATAATAGCAAGAGTG
CTATAGGTAAGATATCAGA

Sequence 941

CCCTTAGCGTGGTCGCGGCCGAGGTACCTCGTGGTTGAACCTATTGTTGGGACAGAATTGA
GACGGAAAAATTTGATATCAAAGGAAGTATCAAAACCCCTTGATGTGGTTAAGAGCATGGA
TAGTGAAACTAACCTCTGATGTATGGTGAGAGAGCAAAAGAGAAAGGATTGCAAGAAAC
TGGAATGTAGAGGATGAACATATTGGTAATAATAACTGGTGGAATTGTTATTCAGGAA
AAAATAGCAATTATTCTGTTCATATCTCAAATCATTGTATGTTGTTTATTTAAAGGGAG
ACATGGTAGAAGATATCAAATATAAAAA

Sequence 942

CCCTTAGCGTGGTCGCGGCCGAGGTACATGAAAATGGCTGTTTTTCCCCACATTAGTCAG
CTCTGGATTTTGCATGTGTGGGGCTTTTTTTTATAGTATTGTTTTTATTTTAAAA
ATTTATTTTGCCAACCCAGTAGAGAACAGCTGAGCATCTTCTCATGTATTTATTGGCCAT
CTGCATTTCTGCTGCTTATTGGCCATGTATTTATTGGCCATTTGCCGTCTGCTGTGAAT
GTCTTAAATTTTTTGCCCATTTTTCTAGTGATAAAACACTGAAGCACATTTTAAAGACT
TCTGATGATTTTTATTGT

Sequence 943

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTCAGGAGATACATTCTGCTAGTTTGGGGTG
GTGTGTTCTATAAATGTCAATTTAATCCAGTCGGCTTATGATTTTCAGTTCTATATTCTT
ACTGATTAATGTGTATATACTAGTTCTGTTACTAAGGAGGGATGTTAAATTAATCCCTAG
CTGTAATTGTGCATTAGTTTGTCTCTTTTCAGCTGTTCTAGCTTCATAAATTTTGGAGC
TGTTAGGTGCATATACGTTTAGGATTATTTGTCTTCTTGGTGAAGTACCTTTTATCA
TTAGGAAAC

Sequence 944

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAAATCAACTTTTCTTTTACTATCTGGAAT
AGGAAAATGTTCCATTCATATGGTGACAAAACGTGAAAATAGGAATATATTTCTGAGGA
AAGTATAGGTATTTACAAATAGATAAACTATATTTCTAGATGAGAATACCTAATACCCAC
TTTACAAAATTAATAATGAATTACAGCTTTTTAAAAATAGATTAAGCTGGGTGTGATGAC
ATGGCACCTATAGTCACAGCTACTCAGAAGGCTGAGGCAGGAGAAGCACCTGAGCCCAGG
AGTTTGAGGCTCTAGTGAGCTAT

Sequence 945

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCTGCAAGTCCAAAGAGGACCAGGAGGATCCC
CGCCAAAAGAGGGTAATCGATGGGACACCAAAGTTATCAGTCAAGTAAGGCAGAAATGC
TTGAATGAATAAATGTATATAGATAGAAAGTAGAGACCTTGATAAAGTCAAACCTCTTGC
CTTTACAAGTGTGTGTTTCAGCAGCCATGCAAGGGAGATGCCCATCTGGCAGTGGCCCAGG
GCAAGGTGTCAGAGCCCTAGTGGCAGGGAGATGGCATCCACATATGAGGGAGGGTGACAT
GGTGCTAACTGGGCATCTACATAGGGCAGGG

Table I

Sequence 946

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTGCATATTTAATGAATTATTTTATAAATTGC
TGTTGTGAAGCATTTGTGAATGACCTGCCTCCTAGCTTTCAATGCTATTGCCAGGCTNG
ACTTTTATTGCAACTGTTTTATGATACAGTTTTGCATTGTATGTGTTTACTTTTTAAAGA
AGCATTTCCCTGGGAGGTTTCTTTTCTGGTTATGAAAATAATATATGCTTATGGGGAAAA
ATTGGAATAAGAAACNAGTATCTAGAAGAAAAATCACTCATAATCCANCACCCTGTTA
ATACTTTGTCTTTTCTTACAGTTTCTAATA

Sequence 947

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGTAGATGAGAACTACTTATTTAGAGTGGCAG
AGCATGCTATAGAAACAAAATATGAGTAATTCTAACTGTAGTTATGTTATATTAGCATAG
TGAGATAGTAACATTAATAGAATTCCTTAGGTGGAATTTCTTTAATGC

Sequence 948

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTGCATATTTAATGAATTATTTTATAAATTGC
TGTTGTGAAGCATTTGTGAATGACCTGCCTCCTAGCTTTCAATGCTATTGCCAGGCTGA
CTTTTATTGCAACTGTTTTATGATACAGTTTTGCATTGTATGTGTTTACTTTTTAAAGAA
GCATTTCCCTGGGAGGTTTCTTTTCTGGTTATGAAAATAATATATGCTTATGGGGAAAAA
TTGGAAAATAGAAACAAGTATCTAGAAGAAAAATCACTCATAATCCAGCACCCTGTAA
TACTTTGTCTTTTCTTACAGT

Sequence 949

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACCAAGAACTAAATTGTGATACGATAGGTGACT
TATGAGTAGCACAGAATGTAATAGGCCCATCTCTACCTAGTTCTGGTCACCACACTTCTG
TCAAGGTAGCTCGGAGAGACGGTGTCTACTTATTACCCACATCATGAGATCACCTCAAA
TGAGCAGGCAGCCAATGAAAACCGTGAGCTTTCTTTACATTAACTTTCTGAAAGTCATTT
TTTCTTATTCCACTTTGTGCTTTTTTAAAAGCTGCAGCTTCATGGAATTTAATCCTGG
TATTTAAACACT

Sequence 950

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTGGTAGGTTGATCTCTTTCATTCTCATGGT
TTAATTACCATCTATTCAGTACTTACTCCCAAACTGTATCTATAGTCCAAGACTGTTTC
TAAAAGGTCTGCACCCACATATGCAAATAAATA

Sequence 951

CGGCCGAGGTACTCTTAGGAAAGAGTAATGGGGTTGAGGATGGTTAATTTAGCCCATCCT
AACTTCTAGTGAGATTTTTTTCANAATATTTTGGATGGTTCTCTCACTTTNGTTATTAAG
CATTAGGGAAGAAGATTCTGCAGCCTACTCAGGTGAGCCAATCTCATGGCATTGAACANA
NAANATATGTTTTACGTCTTTAACCANTGTTTTCATAGTGNAAGTCAGGCCTTTCTCC
TTTGATCTAAGTGGAACCAAGAGGTTAGATACTCCCTTNTCTTAGTTATATAATGGGCT
TCATGTAAT

Sequence 952

CCCTTAGCGTGGTCGCGGCCGAGGTACACTCTGTAGGTCTACAGGTAAAAAGCTATTACG
TTGCAAAACATTATAACGTAATGTAAGGTCTGGATTACATGCCTAAAAATCCAATGATTCT
TGGAACCATCAAATCTGTTAAGACTGAAAAGAATACCAATGTTTAAATATATCTATAAAA
TGCAGGTCAAGGGGCTAAGAAAATTGCAACACTAGAAAACCAACAACTTAGGTTGTTCT
AACATACATACACAAATACAGGAGGGACGTTTATGGGTACATCTGCGAAACATTTTTTC
CCAAAAAGCTGAATTTT

Sequence 953

CCCTTAGCGTGGTCGCGGCCGAGGTACCACCAATAATTATGCCACAAATTTATCCTAAA
TAAGAGTGATTCCCTGTTCTTTTCTACAGAACATGTTTCTGTCCGCAAAGAGAATAAG
AAAACATGACCCCTCCATCCAGAACCAAACTAACTCAGGAGTGATTAGAATCACCTGTG
GGCATTTTCCCCCAAACCACTACTCTGTAGATTCTGATAAGCGCTCTTAAAGAAGCT
ACAGCTCTTCCCCATTCCCTATCTGAAAGCAAGGAACCACTGGCTTTGGTCAGGAAACAG
GCATACAACATCAGATGTGATTATAA

Sequence 954

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGATGTTGTAAAATTTACTATAATTAATAGGA
ATTAATTAATGAATGCCAAGGGGCAGAGCCACACTTCTATGATAGTTCTTGCTATAAG
GTGCTATTTTGTNCTCCTACATTTACTCCATAGTAAGCTNNTGTTTGAGAAAAAAATG
CCAGTTTGGTGCGTAGTAGATACGCAGAGGCCTGNGAAAGGGACNGATGACNCCATTACC
CCATGGGTACAGAATGTATAATGCTTCCCCTCTCAAACCTGGGTTGNTTGGNTTTTTTT

Table 1

TACA

Sequence 955

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTAAGCCAGATTCATGGTATGAAGGCAGCAG
CATAGCACCTCCATTGACCCACATGGGGCCCTGCCTTGGGCTTCATCAGCCCTTTGGAGT
CTCAGATCCCTCACCTGTTAAAGGAGAGTAATACTACCCACTTACCTTTTGGGTTGTTG
TGAACACACATAAGACAGTATTAGGAGAAGTAAGGTCTGAGGGCTGGGCTTTGGACCCA
GCGGGCCCTAGGTAGAGGCCTGTTGAATTGGATGACAGTGAACCTTGCAGCATTCCTAA
CCTCAGAAGTTCAGA

Sequence 956

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCTGCTTTATTCAGTCTAGGTAAGAAATGTAA
TGGATGTGTGCAGGTGACATAATTTAGGGGATAAGGTAAAAATTAGATGAAGCCCAAGC
AAATATTCTTAAAAAGAAAACTTAGGATTTTTTTTACAAAAGTTAACTTAAATGCAT
TATCTAGAATAATGTTATAAATCAACGTATAGAGACGTTAGTGAATAGTCCCTTCATTA
GGATGTTGAAGGAATATGGTTTCAATATTCACAAATGTCGTGATGCCTATAAATTTTTT
TACAAACAAGAGTATTGT

Sequence 957

CCCTTAGCGGCCGCCCCGGGCAGGTACTTCAGGAGATACATTCTGCTAGTTTGGGGTGGTG
TGTTCTATAAATGTCAATTTAATCCAGTCGGCTTATGATTTTCAGTTCTATATTCTTACT
GATTAATGTGTATATACTAGTTCTGTTACTAAGGAGGGATGTTAAATTAATCCCTAGCTG
TAATTGTGCATTAGTTTGTCTCTTTTTCAGCTGTTCTAGCTCCATAAATTTTGGAGCTGT
TAGGTGCATATACGTTTAGGATTATTTGTCTTCTTGGTGAAGTACCTTTTATCATT
GGAACTGTCCATATAACCA

Sequence 958

CCCTTTGAGCGGCCGCCCCGGGCAGGTACTCCATAATATAATCTTTTAAATGGGCAACTTC
TAAATATTGATACAACCATTAATAATAATGCTTATAGGGTAAAGAAAAATTTTGAAGCA
CTGAATTCAGTAACCTGGGTCATGGTCCAATTTTGTCACTACTTCATATCTTTATGTA
GATTATTCCTATAAACATGTTCCCTAAATTCACATCAGTTTGTAAAGTCAATGGATTAA
ATTATTCAAATGTAGCTATTTAACGGTCAGTAACAATGCCTAGAAACCTAT

Sequence 959

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTAAANA
CAGTCTTGCTATTTTAAAGTCCAGGCTGGACTCAAACCTCCTGAANATTGCTCAAGCAATCT
TCCCACCTCAGCCTCCCAAGTAGCTGGGATTACAGGTGTGATGTCCAGCTTAGGTTCCAG
CTNTTAAANANTTGTCAAGTGTGGTGGGCGAGGTGGGTCACATACACATATAATTATAAG
GTAAAAATCACAACACTACAAGAAAGGTGCAACATTTATGAGAAAACCAAGGAAGGG

Sequence 960

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCAGCCTGGGTGACAGAGTGAGAATATGTCTC
AAAAAAATTATCAGCANAAGATAATATAGACCCCAAGGCTAAAGGGAACCATTCATC
TCTAGGCCTGAAAGCCTAGGAGAGGGTGCTGTATGGAGAGGACTGCTTCTGACAGAGGGA
TATAGCCAACCTTGGTGGCCTAATAGAGAGGAAAGTAGGGAATAGCTTACCTTCTTCT
CTAATCTTCTGCTAGTATCCCTATTAATTTAGCCTAATTAGAAGCTGGAAGGTAGGAGAG
CCTCCATGGGCCAAAAAGCTGTTGTAGAGAACATGGATCCTTGAAGGGGGTAAATGGGC
AGATAATTCTAGCCACAGATTG

Sequence 961

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCAGCCTGGGTGACAGAGTGAGAATATGTCTC
AAAAAAATTATCAGCAGAAGATAATATAGACCCCAAGGCTAAAGGGAACCATTCATC
TCTAGGCCTGAAAGCCTAGGAGAGGGTGCTGTATGGAGAGGACTGCTTCTGACAGAGGGA
TATAGCCAACCTTGGTGGCCTAATAGAGAGGAAAGTAGGGAATAGCTTACCTTCTTCT
CTAATCTTCTGCTAGTATCCCTATTAATTTAGCCTAATTAGAAGCTGGAAGGTAGGAGAG
CCTCCATGGGCCAAAAAGCTGTTGTAGAGAACATGGATCCTTGAAGGGGGTAAATGG

Sequence 962

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGAGAATATGATTGTAAATTTGATCAGCAGCT
ACAACATTTCAATGATGCATATTTTTTTTTCAGATGCATTCTTTGATTGAATTTAAAGT
CAAGCTTGTGCTTCTGGATGGTTGCTTTGTCAGTGAACACTTGGATTTGGAATAACAGC
ACCTGGGTTGGTTTTGAGAGAAAATGGTTTCACTTTATAATTACAGTTTAAACCACCAC
AACACAAAAATTAGGATGGTAGTGAATGGAACATAATCAAATGCAAGGTTTTAGTTAA

Table 1

TANAACAATGTCATCCTTTAATAATCTTTAAAGAAGAACAACCTAAATAACCCAATNACA
AAATTTGAAAATTAGGGTCAAACCT
Sequence 963
CCCTTAGCGTGGTCGCGGCCGAGGTACTTGAGAATATGATTGTAAATTTGATCAGCAGCT
ACAACATTTCAATGATGCATATTTTTTTTTCAGATGCATTCTTTGATTGAATTTAAAGT
CAAGCTTGTGCTTCTGGATGGTTGCTTTGTCAGTGAACACTTGGATTTGGAAAATACAGC
ACCTGGGTTGGTTTTGAGAGAAAATGGTTTCAACTTTATAATTACAGTTTTAACCACCAC
ACAACAAAATTAGGATGGTAGTGAAATGGAACATAAATCAAATGCAAGGTTTTAGTTTAA
TAGAACAATGTCATCCTTTAATAATCTTTAAAGAAGAACAACCTAAATAACCCAATAACAA
AATTGAAATA
Sequence 964
CCCTTCGAGCGGCCGCGCCCGGGCAGGTACACTGCATAAAGCCAGAGTTAAACTTCACTGC
CAGCCTCTGAACAGAAGGCTGTTCTATCCACACTATCACAAGACCTGGTGGAGTTGAGGC
AACTGCTGAATTACCATACAGGGAAGAATGAATTCAAGAAAATTTCCCATGCAAGATAGGC
TCTTAAAAAATAAATTTACACAAGAAAATCAGCACTGTAAAGGTAATTGATAAGCCCAAT
AGAAGGGAAACCTATACAAAGAAAATAGAAATAACTAAGCAATCTGAAATGGACTTTAAAT
AATGATG
Sequence 965
CCCTTCGAGCGGCCGCGCCCGGGCAGGTACACTGCATAAAGCCAGAGTTAAACTTCACTG
CCAGCCTCTGAACAGAAGGCTGTTCTATCCACACTATCACAAGCCTGGTGGAGTTGAGGC
AACTGCTGAATTACCATACAGGGAAGAATGAATTCAAGAAAATTTCCCATGCAAGATAGGC
TCTTAAAAAATAAATTTACACAAGAAAATCAGCACTGTAAAGGTAATTGATAAGCCCAAT
AGAAGGGAAACCTATACAAAGAAAATAGAAATAACTAAGCAATCTGAAATGGACTTTAAAT
AATGATGTTTACAATTCTCTAAGAGGAAAAGGAGCATTANCATCAGTGAAACAAAAGTAG
GGCTATAGAAAAACAATACTTATGAAAAACCAATTGGAAATTTTTAGATGGAAAAGCC
TGAAAGTAAAAAATCAACACATGGTCTAAAGAATAAACTGCACACAGCTTGAAGGGAA
AATTAGTTAATTTTACCNAAGAAA
Sequence 966
CCCTTCGAGCGGCCGCGCCCGGGCAGGTACGCGGGTCAAAAGGATGAAAATGTTTTCTGTC
AGAATGAAATTCAGAAAACCTTAAAGGAAATAAAACTATTTAGCACCCAGTGAGGTAAA
AATCGCAATGTCTGGTGTCCAGTCAGTTACCAGGCATGGAAAGAGACAGAAAAACATGAG
CCATCATGAGGAGAACAATTAGCAGAAACCAACCAGAACTGACATACATACCAGAATTG
GCACACAAAAGGATATTTAAACAATAACAACCTGCGTTCATATGTTCAAAAAGTTAGAAA
CATGAAAGA
Sequence 967
CCCTTCGAGCGGCCGCGCCCGGGCAGGTACGCGGGTCAAAAGGATGAAAATGTTTTCTGTC
AGAATGAAATTCAGAAAACCTTAAAGGAAATAAAACTATTTAGCACCCAGTGAGGTAAA
AATCGCAATGTCTGGTGTCCAGTCAGTTACCAGGCATGGAAAGAGACAGAAAAACATGAG
CCATCATGAGGAGAACAATTAGCAGAAACCAACCAGAACTGACATACATACCAGAATTG
GCACACAAAAGGATATTTAAACAATAACAACCTGCGTTCATATGTTCAAAAAGTTAGAAA
CATGAAAGATACAAAAATAAAATCAAACCTCTAAAGATGAGAACTGTAGTGTTTGGAGG
GGAAAAA
Sequence 968
CCCTTCGAGCGGCCGCGCCCGGGCAGGTACGCGGGCGGTCTGTGCCCCATCACCATTTCTAA
AGCACCTTACCCTCATGGCAGTGTCCTAAAGGAAGGGGTTTCCATGGTAACCTCAATGGA
TACAGTCAGCTGACGTCTGGCACCGCCTGTGCTGGTGTGCGCTAGCCTACTCACTCCCTC
GGCCCTCCCTCAATCCTTTCAACTATATTTATTAGTTCTCTTTAATGGAAAGTATATAAT
CCCTTAATGTCAGACCTTGAGTGGGCACTCAGCTTTATTAATTTATTTAGGTAATAAAAT
TTACCTTCTTAATTAATTTCTCAGTAAGTCTGGGAAGCTGTATTATTTAAACATNTTG
CACAATTGT
Sequence 969
CCCTTCGAGCGGCCGCGCCCGGGCAGGTACGCGGGCGGTCTGTGCCCCATCACCATTTCTAA
AGCACCTTACCCTCATGGCAGTGTCCTAAAGGAAGGGGTTTCCATGGTAACCTCAATGGA
TACAGTCAGCTGACGTCTGGCACCGCCTGTGCTGGTGTGCGCTAGCCTACTCACTCCCTC
GGCCCTCCCTCAATCCTTTCAACTATATTTATTAGTTCTCTTTAATGGAAAGTATATAAT
CCCTTAATGTCAAGACCTTGAGTGGCACTCAAGCTTTATTAATTTATTTAGGTAATAAAAT

Table I

TTACCTTCCTAAATTAATTCTCAAGTAGTCTGGGAGCTGTATTTATTTTAAACAT
Sequence 970
CCCTTAGCGTGGTCGCGGCCGAGGTACCAAGATTATGATAGCCTCTNAAAACAAATTGGA
GGTTATAACCTTTTTCTATTCTCTGCAACAGTGGATATAGGATTGGAGTTATTTTTTCT
TAAGTTTTGGTAGAAAACTAGCCANTNGAAGTCATGTGGGTTTGGGATTNTCTTTGT
ANGANAGGNTCCTAATTACTAATNAGCTTTTCAAATAN
Sequence 971
CCCTTAGCGTGGTCGCGGCCGAGGTACCAAGATTATGATAGCCTCTTAAAACAAATTGGA
GGTTATAACCTTTTTCTATTCTCTGCAACAGTGGATATAGGATTGGAGTTATTTTTTCT
TAAGTTTTGGTAGAACTAGCCAGTGAAGTCATGTGGGTTTGGATTCTTTGTAGGAA
GGTTCTAATTACTAATTAGCTTTTCAAATAGTTATGAGAATATTCAGGTTTTCTATT
CTTCTGTGTCAATTTTGTGTCTTTTCTATAAATTTGTTTCATCTATAATTTAATATT
TTGGTATAATTTTTTCAAATAATCTTGATTATTTTACAAGGACAGGGATCTTA
Sequence 972
CCCTTAGCGTGGTCGCGGCCGAGGTACTCCAGCCTGGGGGACAGAGTGAGACCCTGNCTN
AAAAANNTTTTTTGNNTNTGANNNNNGANTAANGAAAAAGAAAAAGAAAAACA
AGAAATTAGCTCATGATAGNCAGCTTTATATTATNAATTATGTGACACTTTGGATATTT
AAAAGCACATTCACAAAGTGATTGTCACTTAAATACCTCAAAATTTCCCTGTTATACAT
GCAGATCATTCCCCATTANCCCTGGGTATGGGACTGAACTGTGTACCTGCCCGGGGCG
GGCCGCTTCGAAAAAGGGGCGAAATTCAGCNACACTGGGGCGGGCCGTTTACTTAGT
GGGATTCGCGAGNCTTCGGGTTACCCCA
Sequence 973
CCCTTAGCGTGGTCGCGGCCGAGGTACTCCAGCCTGGGTGACAGAGTGAGACCCTGTCTC
AAAAAAAAAAAAAGAAAAAGAAAAAGAAAAAGAAAAAGAAAAACAAGA
AATTAGCTCATGATAGCAGCTTATATTATAATTATGTGACACTTTGGATATTTCAAAGCA
CATTCACAAAGNGTATGTCACTTAAATACCTCAAAATTTCCCTGTATACATGCAGATCA
TTCCCCATTAGCCCTGGTATGGACTGAACGTGTGTACCTGCCCGGGCGGGCCGCTCGAAAG
GG
Sequence 974
CCCTTCGAGCGGCCGCCCCGGGCAGGTACAAAGCTAGAAGCAGCCTGGTCCAGATGGCTA
TACAAACCCNANACTGTCTACACCCAGACTTTATTCTTCTACAACCAAATTCCTCAAACA
CACAATCTTGACCAGTANCAAGTTGAAANGGGAGTTTAAAGTGGGGGTGA
Sequence 975
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGCTACCAAACCTGCATNAAAAATTCGGT
NGGGGCNAANAAANGNNNTTNNCCNANCCTCCGAGCAGTACCATGCTATATTGGTCACTG
TAGCTCTGGTACATANTTTTNGAAGATTGGGTAATGTGGATTCTCTAGCTTTGTTAAG
CTCTGTTGTTTCACTTAGTATTACTTTAACTATTAGGGCTTCTTTTTGGTTCATATT
AAATTTGTAAAATAAAATT
Sequence 976
CCCTTCGAGCGGCCGCCCCGGGCAGGTACCTCTCATTTGTCACTTTTCAACACTTCCTGG
CANGCAGGCANCATAACTGGTCTGGTGATCCAGACCACACTCTGCAACTCTTTCT
TTTGAGCCAAGGCTCCCCTACTGTCTTTTCATTTTATGTCAAGGCAGGGGGAAGACCTCA
AAGGGCTCTTGATCCCAGTCTCACTTCCAAGAGAGGCACTGAGGCCCTCCAGGATGTG
GGGACAGGAACCTTTGGGGCCAAGCCGGGGCTGTCCAGAAGATCACCAGGAGGGGCTTAA
TTAGTTNGAAAAGGGAGNAGGTCCCTT
Sequence 977
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTAAAAAGTAAACAAATTTAACTGAAGCATGG
CTATTAGTTAGTGATTCTTTGTAGATTTTCTGGAAAGTCTTGTTTGTGTTGATTAAACAT
TAAGTCTGCTGTATGCTGTAAATACACTGCTAAGATCAATATTGAAAAACGAACAATAAT
ACCAATTCATATGGACCTTCAAATAGTCTTATAAAATTTTATGGATATTGGNATTAT
CCCAAGCCAACCTGACTTTGAGGACTGACAAATAATATCTTAACTTTAACCCAGGGGTG
GATTTCTTGCCATTNCCTTTTGGNTT
Sequence 978
CCCTTCGAGCGGCCGCCCCGGGCAGGTACGACTTCACAACACCAACCAAGGTCTCAAGG
TCAAAAAATGAGCTAGGAGTAAAGTATCTGCTCCAGAATCTACCCCATCCAGAAAGAG

Table 1

CAACCCAACTGTGTCCTGAGTGGCTCTTAGAGTTTAAGACTCTGAATGAATGCCTAAATT
TANAAAGGGTGTGGACCAAGGGATTTTNGGTTAATGTATCNCTAAAAGCANGCTGACTGC
CAGGATTTCAAGT

Sequence 979

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTGGCAGCAGAGTAGGCACTAATATGTGTTG
AATGAGTAGGTGAAATAAACAAAAACCTAATGGCGATGGAATTTTATGGAATAAGTAAA
CTTCATTATTGCTGAAAATACCGCAGATAAATAGAGGGAGGCAGTGAATAGAGTGGAAA
GAGCAGTAGACCAGGAGTCAGACAGTCGAGGATCTCATTCTAAATTTGAAGGTGAATAGC
CATGTGGCTTTAGACAGGACTCTGAACCACCTTGTTTTCTTATCTGTAAAAGGGGGGAAG
TCATAATAGCTACTCCTGCCTAACTCATANGTTGTTGAGAAAATGAAGTGATT

Sequence 980

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTACCTTTTATGTATGCTGGAATAAGAACT
TGTGTCATCATGTCATGTAGAAACAATGGAAGGATAGGCAAGGAAAATGAAAAAATGA
TAACCTATGGGGAGTGATGGCCACTAGATGACTGGGGACAGGGGCTGGTGAGTGAGCGCA
ATTATCTATTTAAACAATCAGAAATGCTCCCTAAATTACAGTTTCTAGTTAAATGCAGT
AAGAAATCCCCACAAGCTCTGCAAAATAAGTTCTGTCAATCAAATCTTACATGATGCAT
TAACTGAGCTATTTTAAATACTACCATGGAATTCATCTTTAAAGGTGACCTTTGTAAA
AG

Sequence 981

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTATTGTTGACTGGCTAACAGAGGACCAATTA
ATAAGCCAAAGAAATGGCTCTTTAACAATGAACATTTCTGCCATCAACTGACAGATCCCA
GGAATAAATGTTTTCCAGTGAGGAGACTTCTGTTTTTTCAGAACACCTCTGGCTGCCCC
TGCCACCCCATAGAAGGGCTATCCCTCCAGGTCAGGTTAGCATCATCACCTAGAGCCAA
CAAGTCAAGGAGGTGATGGTTTGCCTTTGACATCTCTACCCAGACCAGACTCCTACTGGAG
AAGACTCTCCCTTTTTTCATCACTGCCCTACCTAGTTAGGTTGGTCTCTGC

Sequence 982

CCCTTAGCGTGGTCGCGGCCGAGGTACTTAGATCAGATGGATTGAAACATGACAGCCCCA
TTTCATCTGGCCGGTTAAGGTCCTCATGGAATGAAAAACACTTTTCGGGCACTCTCCTATG
AGAGAGAGAATGGGTTTTCTTTAATTGCCAGATTGTCTGAACACAGCCTCAGCTACTTCTA
GGAATAAGACGAAGCAGTGAGGAAAGTTGCCAGTTGAGTGATTCTTGGGAAAAAATTAG
CATTCAAGTGCCAGCTCTCTAAAGTGTTGATTCTGGATTCTGGTAGAAGCCAGTAAAGAAA
CGTTTTTCTCTGGAGTGGAAGCCTAGTAAGATTATTT

Sequence 983

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGACATTTCAAGACATGGCCCAATGCACAAG
CAACTTCCCAAAGCTGTAATTCACGAGATTCTCAGGGTCTCTAAGCTCCTTGAGGGCA
GAAACTTATCTTTGTATTACAGCTAGCCTTCAATCAGTAGGTGTTGAGCTGATTTCTTT
TTCTTTTTTAAACTCAGAAGTTAAGTTCCAGCTTCAGTGGCTATGCCAGATGGTCTGAT
TCTGAAGGACAAGAGAATTCAGNTGGCATAAGCCCTGTGCTTGGCATGTAGTANGTTTCT
CAGTAACTTTANCTGGCGGGA

Sequence 984

GAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTAGTAAAGATGGGGTTTTGCC
ATGTTGGCTAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCCACCCACTTCGGCCTCCC
AAAGTGCTGAAATTACAGGTGTGAGCCACCGCGCCCGGCCGAGGACACTATTTTTTGTCT
TTGGAAGAAATGAATCCTAGTTTTGGTTCAGAACTGTCAACAGCATTGTGCCTCTTCTA
TGACTACTAAATTTCAAGCAAAGAGAGCTGAGTTGGGGGTAAAAGCAGGGCTATTCCCCG
CCTTCAGACAATGCTTGTCCTTATCAAGGGCAGACTGCTGTCTGG

Sequence 985

CCCTTAGCGTGGTCGCGGCCGAGGTACTTAAATTTTTTTTTTTTTTTTATAGTAGAGA
TGAGGTTTCACCATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCCACCTG
CCTCAGCCTCCCAAAGTGTTGGGATTACAGGAGTGAGCCACCGCACCCAGCCTGTGTGTG
TTTTTTTACTTAAAAATTTTTAAATTTAAATTTAAATGTTTAAATTGACAAATAATTTAT
ATATGGGGTATAATGTGATGTTTTGATGTATACATTGTTGTATACGTTGTAATTGTATAC
ATTGGGGTTGTATACATTGGGATGTATACCATTGAAATATTTGNATCCAGAAAATTAA

Sequence 986

CCCTTAGCGTGGTCGCGGCCGAGGTACATGGAATACATAATTTTGAATGGAGTCAGGGC
TTTCCTAATGATCCATTTTGAATTCACCTAACAGCTGAGGGAAGGTCCAGAGAAGGAAG

Table 1

AACTCAAGGTTAGTAGACAACTTGATATTGAGTTGCACTGGCTGCCTTCTCTTTTGGT
CCCCTAAAGAGTATTTATCATCTTAGATTACAGCTTAAGTTGTGGACAAATATCAAGGGGA
AAAGTATTTACAGTTAACGTTGGAATCACACGGTTTTCCGGGGTTGTGCCTCTTTACCCT
TCAACTTTGGTGGTTTTCTAAAGAGGGACCGATTATTAGTTGCTTCTACTAAGGAAGGGGA
AG

Sequence 987

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGGCCTAGAAAAATTTTTTTTTTTGAAATGG
AGTCTCACTGTGTGCGCCAGGCTGGAGTGCAGTGGCNCAAATCTTCTNTCTNAAAAAAA
AAAAACAAAACAAAAATAAACTTTACTCAAATATCACTTTCTGTTAAATGTTCTTAATTC
CTTCAATCATCCCCCTCTTCTAACTNTNACAGCACTTTCTTCCACTACGGCAGCATTAC
ACGCCAACTACTCACCAGTTCACGTTTTCCGCCCTNTNTCCCACTTGCCCAATCACAGAN
TTCCTAAAGAACCAGGACTATGTTCTACTAGTCTTTGTAGCCACTGCACT

Sequence 988

CCCTTTGAGCGGCCGCCCGGGCAGGTACTCCTGTTTCTACAAATTTATCTTATAATAAT
TTGTCAAATGTTGAGTGCACAGATTTATTCTTGCAGCATTGGTTTTTCATATCAAAG
ATGGGAAACATTGTGCAACAATGCCCATCAGTAGTGATTGATTAAATAAATTAGGTAT
ATCCAATAATTGAATATTATGCAAGTATATAAAAAATAAGAATCATGAATATGGAAAGAT
TTCGAAAATATATTGCTAAGATTAAAAAAGGAAGGGCAGAAAGAAAAATAAGTTGGGTA
AAAAAACCCAGAAATGTTTACTAATAATTATATTTAAAAACTCATAGGATAAACAAGG
AAGGGTAATGAAATAATTAAT

Sequence 989

CCCTTAGNNTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTGGTAGAN
ACAGGGTCTCACACTTTGTTGCCAGGGCTGGTCTNGAATTNCTTGGACTCAANCAATCCT
CCCGTGTAGCCTCCCAAATTGCTAGGGTTATAGGTGTGAGCCACCCTGCCAGCCTATG
TTTATTTTCAGATGTTCAAAACAACAAACAAAAATAACACACTNGAAAAATGATCAGAGA
ATACGTGTTAAATGAGAAATNGTTCAGGGCTTTTATAAATTTGTGACCTCCACCCTTCCC
CTTANTCCTTTTTCTCCATAAACTCTAATTNCAAATTTTACTACCACAGCAAAAAAGAGG

Sequence 990

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGTGATTGTCTGTGTTGAGACTATTACAGAGC
TCCAAAAATTAAAAATAAATAATTTTACAGAAATACATATTTGCATTGGAATATTT
AAGAAAGTTGAGTTTGATGCCACAAGATTATTGGAGTNATAGGNAGCTGGGCACAGTGG
CTCACACCTGTAATCCTAGCACTTTGGG

Sequence 991

CCCTTAGCGTGGTCGCGGCCGCGGTACCCTAAACTTAAAGTATAATAATAATAAAATTA
AAAAACCAAAAAACAAGATTAAACAGAAACAAAACANCAAAAAAATCCCAGCATATAC
ATTGAGTCATTTGCAGGTTTGGGAGGGGGGAAATGCTTTTTTGTATTAGGAGAAAGGGA
AGCTTTTCATTTTAAATGGCTATATTACTTAAAGTTGCANTAAATTTTATTACTTTC

Sequence 992

TGCTCGCTGGACAGAGGGCAACCCAACACTCTAGCCTAAAGCCCCGTGACACCTGCAGCA
GGTGCTTGCCACGCNTTGCACCCGTTCCCGAANTAAAAAGTCGCCGGTCTANAAGGCG
NCGAGNTCTTGGTNGACCTTTGNGCANCCCCACCCGTTGCCAGTCTTGAATGNGGTTACC
CCANAGNCGCCNAGGCTGACATGGGAAAGGATGTTCTTTGGGAAAAAAAAAATGGAAC
CCCGGTGGGTAGNCCCTTGNNGGCGNTGGGNAGCCCCCGGANGGGGTTCCCGNCGNT
T
TGGCCGGGGCNCAAAATTCANAAGNCAAGGGTTGGGGGNATCCCCGNGGGGAACCTTGGG
G

Sequence 993

ATGCAGAATTGCGCCCTTTGAGCGGCCGCCCGGGCAGGTACCCCATCAGAGTGTCTCTCT
GGCTTNCCTGTATGTAAACCTTACCTAATACTTTTCAGTCACCACTCTTTCTGTGTTTCTT
TCCCTTTTAAAGNCAAAAAANGGGANGNAAGTAAGTTGGNNATTTGGNGTTTCAAAGNGNC
CAATTGNCTTTTGNCTTTTTTCA

Sequence 994

CCCTTAGCGTGGTCGCGGCCGAGGTACCAAGTTGTTCTCAAACCTTTCATGTTTGTGTATA
CAAATCAGCTGAGGCCTTCACTAACTACAGATTCATGGCCTGGCCCTCAGAGATTTTG
ACTCAACAGGTCTGAGTTGGGACTAGAAATATGCATTGCTAATAGGCACCTGACAATTC

Table 1

CGATGTAGGTGGTCCTTAGAACATATTTTGAGAAATATATTCTGTAGTCTGGCAGATAAA
GAATTCTTAACAAGGAGGTCTGCCCCGGCGGCCGNTCGAAAGGGCGA
Sequence 995
CCCTTAGCGTGGTCGCGGCCGAGGTACCATCATCTGTTTCCCTCTGGTTATAAATCTTTA
ATGAAAACGGATTAAAAAGTCACATTATGATGCTCGAAGCTCTGACCTCTCATCACAAT
GAGAAGCAAAAGACATGCCATAAAGATGATATTTCCACAGGAACGATATTAGAATTATG
TGATGCAATCTCATCCAAGGTCATGGTATCAAACCAGACACAGCTAAAAATGTATCATAA
TAGCAAGGATACAGTAGCAAGGATGGGCCTCAATAAACATTTAAAGTGGAATAATCTTC
TCTAACTCATATCAAGTACCTGCCCGGGCGGC
Sequence 996
CCCTTCGAGCGGCCGCCCCGGGCAGGTACCAAAATAGATAAGGATCCTGTTTTTGAAT
GAACCCAGTTGCGCCTTAGGCATTGTGAGTTGGCTCATTTCAAGCCAGTTGTAATATGG
TTTTTTATTCTCTAAATTCGGGACCTGATGCTAAGGAATGTGAATATACAGTTAGGTTT
CTGCGAACCTGTGTTGGTTCAAAAAGGCTGGTGGAGGGAAATTTATGACACTAAATGCT
TATATTAGAAAAGAGGAAAATTGGCCGAGCACGGTGGCTCATGCCTGTAATCCAGCATT
TTGGGAGGCCGAGCCAGGTGGAT
Sequence 997
CCCTTAGCGTGGTCGCGGCCGAGGTACTTGGCAACAATAGCTACAAAGGATAGGATACTC
AATTGCAAGTAGACTTTTCAAAATTAAATTCATTCTATTCCCAACTCAATCTAGA
ATATTATTGGTGATAGTGAAGACCAGACAGATGACATTACTTCCAAATTTTACCAATC
TAATTGTTTTTACTCACACCTGTNGATGTCACCTTAAAAATGTGAATATTAATTTCTTCA
AACTACTCCAATTTAAGTAATGAGTTAGAGCTTTGGCAACCATTAAAGGCTCTCTTTTCC
CAACTTAACAATATGTGGTAATGTCTTCCCTGACTTCATTTTATGTTTACACAAAATCA
AAGGTTATATTTAAAGGGTTTTCTACATTTTTTGGGATTTTACCTCCTTGNAATTTAG
NNTTATATGTCTGGATTACAAAACATATNATATTCAAAGAATTTNTAACACTTAGAGGT
AGAAGTGAATTTACAGGTTGAAGAATTATTTAA
Sequence 998
CCCTTAGCGTGGTCGCGGCCGAGGTACGTGTTTTACTTGGTGCTGTAGGTAATGCTAATT
CATGATAAATTTTGAGAACCACTCTAGGGTAGTATGTTTCCAACAGTTTAGGTCATGAGC
AACCTTGAGAAATACACTTTTAAATCATGACTCAGCACACACTCACATGCACGTGTGAC
TTAGACGTTCCATGAAACAATGCTTATCTTACAGTGTGTTTTCTGCTCTGGTATTTTTAC
TTATATTCTATTAATAGATATGTGTGTATAAACTTATTGATATAAAAATGTGGTCATGA
TCCACTAAAGTGATTTTACAAGCCACTAATGG
Sequence 999
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTNAACTTGGGTNTCCTTTTNATNATTCTGN
AAAATNANAAAAACCNAANCCTGTTNATNTAGGGTTTTNATGGNTANAGTTGNANAAAA
CTGNNTTTTGTNAGTTTNAANAAGNCCATTTNAATGAGTNAAATTTTNAAAANCCTCNA
AANCNAACAAANCTGNAAAAAGTAGGGGNGGGGTNAAATGGTTNATTTNAAATGTTTG
CCTTCANTANCATGAGAGGG
Sequence 1000
CCCTTCGAGCGGCCGCCCCGGGCAGGTACTAACTGAATATTTATTTAAAAAGCATTAAAT
TTATCTATCTATATACTAAATCTATCAAATATTCTTTAAACACGAACCAAAGTTAATC
TGAAACTCTTCCTGTGAAAAAAGTCATGTATTATATGCCCTCAACACAGAAATTTGTCATT
ATTTCTGTGGCATTATACTATGCCCTTTGTATATGCTTTTTTTCCCATAGAGCATT
TTCCCATAGAACTTTGTATTCTCCACTTCTACCACCTTTCTTTGAAGAACTCTTATTA
CCATTTCTTGGACTAAATTAGGAA
Sequence 1001
CCCTTAGCGTGGTCGCGGCCGAGGTACCCAGAATATGGTATATCTCTTCATTTATTTAGC
TCTTTTTAAATTTGTTTGGTAATATTCTGTGATTTTTTTTTTTTTTTGGTATGGAGG
TCTTACATCTTTTGTAAATTTATTCCTAATACTTTGGATTTTGACATTATCATAAAAGA
AAATATTTCACTGACTTTTCCAGTTTGCTGCTGGCCTAAACATATANTTAATNTTTAT
ATTTAATCTTGATCCTATNACTTTGCTAAATTCATATA
Sequence 1002
CCCTTCGAGCGGCCGCCCCGGGCAGGTACTACTTGGCATTAAATTAGATTGTGATCATAAG
TCAAAATGTCATTGGTTATAAAGTGGTCATCAGACCATGCAGACTATTACTAATATTGGT

Table 1

TATGTTTTAGTTTATTGCAGTGAAAAACAAAATTTAAAAGTTATTGTAGAGAATTATCA
TACCCCCCAAAAAGTGTCATTGGTCCTCCAGGACTCTGTAGTCCCCATCCAAGAAAGACT
GTGATAATTGTCAAGGGGTTAGTATGGTCTGAGCATGGTTGATGGTGCTCTGTCAATTCTG
GTATTAAACAACCTGCCAAATGTCTTGATTACATGTCCTAAAAAAGTGAGGGGAAGAAGT
GTAGGACAAATGCAAAATAAAATAACACATTTAGCTATACTTTTAAGTATTTTTTATT

Sequence 1003

CCCTTAGCGTGGTCGCGGCCGAGGTACATCTGTTTCTGAAAGCATTTTTCACTGAACCAA
TTTTCTATACCTTTTTCTTGATTCTTTTCTTAGCTTTTGTATATGGTTGCTATATT
TTTCAAGCCTCATACCAGTCATATAAAACCATGATAAACTTCATCAAAGCATACTTGGG
CAAATTTCAATTATCAAGTAAATTTGTAAAGAAAAATTTTTACTAGTTTGGAAATAGAT
CTACATGTTTGATTTTCTTCTCTCCCTCCTTTGTTTCTTGCTTTCTCTCCCTTT
CCTAAAAAGTTAATGGCTATCATTATCTTCACCAAATTAGTGTTTGGTATACCCATAA

Sequence 1004

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCTGAACTTAAAAGTTGAACAACAAAAAAGA
AGGAAAATGCGTTAATACCTTATTGTAATTATTATTTTTTGAAGACTATTTTTTATATT
CAGAAGAAAGTGTCAGAGTCAGCAGAAAGGGATTATTTCTCCATTTACCTACAACATGGT
TTTAAATGACTGGATAGATAGAAATCTCTTCAACTTAACTGCTTAGCACATTGCATTTT
TCTCTGTTTCAAGTTAGTTTTCCAAAGGATTACTGACTTTTACCTAATTTGCTAAGGGA
TGTCAGGCCTTAATGACATATTTCTCCTCAAATAAAGGATACAACATGC

Sequence 1005

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCGGTATTACAGCGCCACCCACTGGCTAGAAG
TCCTCATAGCACATATGAGATGTAGCCATAAAATAGATGAATTTCTTGAAATANGGAATAT
AACACTTGACTATTCTGATTCAAGNAGAACATAAAAAATGTTCTAACAAAAACAGAACCGA
CACATTTATATNTATTTCTACAAGTNAACAGAAATATCTATTAGA

Sequence 1006

CCCTTTGAGCGGCCGCCCGGGCAGGTACATAGTTCTGCTTGCAATTGGTCCCATTACAAT
CCTGTCTAAATCCTGAAGTAAAAATGAATACCATAGTGAAGAAATTACTTGTGCTATGTA
AAGAGGCTGGTCCAACCTCCTTAATTGCAACAGGGATTGATTCTTCTACTAGTAGTTAGG
AAAGGTTGCATTAAATTTCAAGTAGTTAAAAATGTGCGATTCTAAATTTTTGTAAATTTCCC
ATGAGAGAATAAATTTTTTCAAAAATATTCCAGTAGGTGAATGGCTTAATACATGGTA
TCTGTGAAGATGGCAAATAAATGAC

Sequence 1007

NTNTTNGNNAATNCNCNNTTAGCGNGGTGCGAGGGGCGNGGNNCATNTAAAANGTGATGC
TAATACTTTTAAATGTGTTAAGATATATGATTTAAAAAGCATTGTNAATTGTATACTGCA
GTGTCGTCTACATGGCATTGGACAGGACANTAAATTGTAACATAAANAGTGCNAATTG
TTACACTTACATATGAATAGCTGAAATGNGCAACAGTGGACGCAANTTTTTNGTCTTTC
AAGTTTTANTAATTACCCCAANAANACCTATTTAACNAGGCTGATNCTAACNTGGGGGAT
ATTTAATGGNTTCTTATTAATTTGGACCNAAAAANTCTTTTTGGAATTAANCTTGGGCN
ANTTCGCAACCAAAACCAATTTTAAT

Sequence 1008

CCCTTAGCGTGGTCGCGGCCGAGGTACACTGGCTCACCTCTCAGGGCTTTGCTCCTTGGG
AGGCTATTCAAGCTCAGCATCACCTGTCTCACATCTGTCTGGGATCCTCAAACCTGACCT
TTGTAAATTTCCACTAACTGAAGATTGTAGAGGAAAAAAAAAACATCTTATCGAATTCC
TGCTCTTATAGCTGATTTTAGCTATTAGGAAAACATCCCAAGTTGAGCTTTTCTATTCTT
AGAATTTCAGATTTCTTCTTTTTTAAAAATTTTATCTCCTTTTATAGTAGTAAAAATAT
TTTCTTTTTTTTTTGAATGGGAGGTCTTAAGCTCAGTGTCAAAAATAAATCATTTT

Sequence 1009

CCCTTCGAGCGGCCGCCCGGGCAGGTACCTTCTTGCTACAGCGTTTAGCTCCGTTTGT
TTGCATAAAGATCTGTTTTCTGACTTCGCATGAGGGGTAGATGTTCACTTATTCTCACT
ATGTAAATTTACTTAGTAAATAATAGGAAGAGATGTTGAAATACAACTTTCTGCCACCAG
ACCTTCACTCTATTGCAGTCATTTTCTCCCACTCTCCCCCTCTCTCCCACTTCCCTCTGA
GGATTACCTTCCCTCTCTCANCATTCTCTGTGTCAGTGGCTTTTTTTTTCTTTGGCATG
CAAACATGCTCAAGTCTGTCTTATA

Sequence 1010

CCCTTAGCGTGGTCGCNTNTCGAGGTACTCTTTTCAAGTGAAGTGTTCCGGTCACCTGGA
ACCTGTGAGTATGTGGTTTTTGATCTGTGACTAACTGTCCCCATTTCCAGTTTCTCTG

Table 1

CTCCGTCAAATATCAACATTTTACCAGGTTTCTCTGTTGTTGCCAAACCTGTCAATTTTA
TTTGGTGTGGCTTCTTGGGAACTTCCATGGCCCATTTGATGGGAATCAAACAGTGAAAA
CAAGGACAGATGCACCAGAGGTGGCATCAGGAACAAATGGGTCAATAAGAACTTACCTTGG
CAGCAGCCCCAGAATGGTNAGGAGGAAAGGCACTNTAAGGTATCAGAAGGTAGAAAGGAN
AGGTTGGATNATAGNAATGGGGGAAAGGG

Sequence 1011

CCCTTNTNNTGGTCGCGGCCGAGGTACTGAGACACTGGATCCTAAGAAAATCAGAGTTAT
AGCTAGTGGCAGTTATCAAGGGAATGCAGAGGTTTCTGTATTCTGAGCATGTTCTGTAA
TAGGATAGATAGGCGATGTGGCAGCAACAACTCCCAATTCGTAATGTCTTAAAAACAAAA
CAAGTTTTATTTCCATTTATGCCATGTTCCAGCACAGTTTCTCAGAGGGCTGTGCTCC
ATGCATTTACTCAAGGCTCGGGAATGATCATGGCTACACTATCTTGCAGCCACCATATTT
GGAACCTGTTGCCACTCTGATGGCAGCAGAGAACAAAAAGAA

Sequence 1012

CCCTTTTCGAGCGGCCNTTNNNGCAGGTACGGGCTTTTTGTTCTTGTGCAGTAACAGTG
AGGGCATGATTAGCCATCTTGGCAGCTGA*GTCTTGTGACACCTGCCTTGTACCAC
TCTAACAGGCCCGTGTACAGCAGCTCCGCTTCTCCTGACAAGCTGCGAGCACAGGGGACA
GCACAACTCTGAAACTCTTACNGATACCAACAGCAACAAAAATGAAAGCAGTTATGGTGGG
CAAGCATTAACTAAAAATTTTTTTAA

Sequence 1013

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGGTCTCACCATGTTGGCCAGGCC
G

GTCTCAAATTCCTGACCTCAAGTGATCCTCCCCGTCAGCCTCCCAAAGTGCCAGGATTA
TAAGCAGGAGCCACCGCGCCAGCCTATTTGTTTCTTAAATTTTTTGTCTTTCAGTCA
CCACAATTTACCATGCATAAATCACAACGGTTAACAATTTAGCATCTTTGCCTTCTTTT
CCTGTGCACTTACGTTTTATGTAGCCAAGATCACACGTTGCATTTTGCTGCTTTCCTTA
ACAGCGTCTAAGTCATCAGCACTCTATTGTGATGATTTATCTTAAAAATATTCCAAGCGA
TCATTTTTAGTAACTGTGTAATATTATATCATAAAGTTAAACATAATTTGCATTCAAT
TGTTGAAATTTTTAGGTTACGTATATTTCTCTTATAAATATGTAATATGTTTATAAAA
AGTTATATACAGTTTTTTATAAATCTTTGTGCATACTTTATACTGGTTCCTTAGCATAGA
GACTGTGGGAATAGGATTTCTTGAAAAANGTAAAAAGTGTGAGTATGCATATATACCTG
GTACATATATGTTATTATTATAAANGGTAATATTCTTTTTTTTTTGAGAAAGAANTCTC
ACTGNACTTCANNCTGGGGTAAAGTGAGACCCCTGTCTNAAACCAACCGGAAAAAAA
Sequence 1014

CCCTTCGAGCGGCCCGCCCGGGCAGGTACTTATTCAGACAAGAGTTCTGACTCTCATGCTT
GAGGATAAGATTATACATTTTCACTATTACATTGAAGATATTTTCAATTTTAACCAGACTAA
CTTAGTATATTGTTATTTTAAATGTGACCAAGAAATATTTTCATAGAAGCTAATGCTGA
GTCTTTTGATAATTTGCCGTATCTTAGTCAATCCCAAAAAATTTATTTTCTACTATTTAC
ATATTATCCTAGTGGATATTACATTACTTACTGAAGCCTTTGGTTCTATGTTTCATCTAC
TCAGACTTAATTACAGGAAGAGCTTCATCCAGATGTTTTGTTATTTGTTTCTCGATTACA
TGATGAGATTTTCAAGATTTATGAGATCATAGGTCAAGTGAAAGGTCACAGTTGAGAGGT
CAAGTAAGAAGCTAAAATTTGTGAAACCAAGAAATGACAGGACAGTGCCAAATGAAAGG
TCAAAGTCAAGTGACAGACTCAGTACCTCGGCCCGCGACCACGCTAAGGG
Sequence 1015

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGAGAACCAAGTGACAACCTGTCAAATTA
TTGTAGTTAGCCAGTGAATTTTCAATTTTGAATTTTTCTTTCTTTGAGACAGGGTCTTG
CTGTTGCTCAGGATGGTCTCGAATCCTGAGCTCAAGCAATTTGCCGGAGCTCAAGTCTC
AGCCTCCCAAAGTGCTGGGATTACATGAGCCATCGCACTCTGCTGTTTCTGAATTTTTTA
AACAAATAAATATCAAGCAATCAGATGCCAAAAATTACAAAAGAAAATCAGTATCAAAAA
TTTGGAGTTTGAGGCCAGGCACGGTGGCTCAGGCCTATAATCCAGCACTTTGAGAAGCT
GAGGCGGGCAGATCACGAGGTGAGGAAATCGAGACCATCCTGGCTAGCACGGTGAAACCC
CGTCTCTACTAAAAGTACCTCGGCCCGCGACCACGCTAAAGGG
Sequence 1016

CCCTTAGCGTGGTCGCGGCCGAGGTACTATTATAAAGTTAACATATTTCCCTATATG
CGGAAAAATGCTGACTATATCTTTTGGTTGCTTTGGAACACTATCTCCTCACAACAGTCCT
TGTCTACAGAAATGGGAAAGGGAAGGACACATTTTGGTTTCTGCAACATGGCAACATTCTG
TAAACCAGAAATGATGTGTGACAAGAACTAAAGAACTGGACGAAATTCATTCCATT

Table 1

ACCCTGGTTAAAGCTTCCTTGAATCAGAGATAAGAAACAACATGAAAAATCTATTCCTTT
TAGAAAAACAAGTCTTTAACCCAGAGGTTGGTTATTTTGAAAAGGAATTAGACTCTGGGC
CCACATACCGCTCGTTCAAAATATAATGCTGTGGTTTCAACTCCTGCTAAATGTTGCTGT
GACTTTTAAGCAGAGAAGCTTCTAAAGGAAGTAACCTAGGGAGGGGCTGATATAACTCAG
ACATCAATAATTCAATTTATTGGAAATAGGAGTAGTAGTATGAAATGCTAGCANACTGTT
TCATTTGCAGGGAGGCATTTTCTA

Sequence 1017

CCCTTAGCGTGGTCGCGGCCGAGGTACAATTCAACTATCATTCTGGTTGCGGTGGAAGAT
GGAGACTGGCTATAAGGTAGAAATATGGTTTGGGGTCTTGGATATAGTCATGGGTGCTT
TGAAGGACTGGTGACAAAGTTTGGACTTTACCTTGACAGACAGTGGGGAGCCATTGAAGAT
TTTTTTGAGCAGGAGTGCAGGAATCAAAGCAAATTAATTTAAAAAATTTAAATTAAGG
CTAGCAGGATTGAGTTTTCAAAGTGGCCAGCTGTGGACTAAATCCAGCCTACAGATACAT
CTTGTTTGACCAGCAGAGAGGCTTCAAAGTCTTCAATACATTGCCAACACTTAAAAATGA
GAAGATTAATATAAAATTTCAAGTTTCCATCATCTTTTTAAATATTAGGAGTTCAGCA
ATGCCGGGCTTTTCCCCCGCATGATCACTGAGCTGGATCTCATGTTTAAAGCAAGCTGT
GCTCCCCGCTGCAGCTCTCTCGGTTCTCTTTCTTTTACCTACTGACCCCATATNCATT
TTTAAAGATTTTTAATTTTTATGGATACATAATACTTGNNCCTGCCC

Sequence 1018

CCCTTGAGCGGCCGCCCGGGCAGGTACGCGGGTCCCTTATTTTCTGGTGTTTACTTGGA
TGCATCAGTGAACAAAACAAAGGTATCTGTCTTATGAAATTTATATCATAGCAGAGGAA
GACTGGAAATGAATAAATAAATAAGAAATGGAGTTTGTGGAAGGTAATAAGTTCTGTGG
AAACAAGGAAAACCAAGGCATGGAGTTTGGAGTGCTAAAGTGAAGGTGTGAGAACAGAT
TGCTCTTGCTCAGTTTTCTGTCTTCTTTTGTAGGAAATTGTCATTCTCTGTATGCTTC
ATTATAATATACAATAAATATGAATTGTTATAATTTAAGATAAATTATATAAATATAA
ATTATAA

Sequence 1019

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTAGTTACTCCTTGCCCATAGACGTGTTTGA
CCTAGAAAAATTTCTTATACGCAACAGATATTCATAGAAATATATATTAATAAAGCTT
GAAGGGTGAATTAATAAATATTTACTTGGAAGCTACAGTGGGTGAATTAACAAATATT
TACTTGGAAGCTACTTTATAGCCACTGGGCTGGATTTTATATACAGAGTTCTTGCCCTTG
GGAGTTNTACAAGTCTTAACACTTTGTCTATGCTAGAATACA

Sequence 1020

CCCTTAGCGTGGTCGCGGCCGAGGTACCTAATGCTTTCAGCCCAGGAGCAGAAAGAGAAG
TGGGCTCTTTGCTTTGAGAGTCTCTGAAAATTTTCAATACCCTGGGACAAATTAATGAG
GTAGATCCTTCTTTGAATTTGTTAATAAAGCATGCTTGTGTTTGTCTCCATAAAACAGGCT
TTGACCATTAAAGGTTTATATTTTAAATGGGTAAATTTTATTGTAATACACTAATTTTAAAG
AAAAGAATTAAGTCAATGCTTAAAGCAAAAACAGACCTTGGATTTACCCATAACTTT
AAGGCTGGTCATTTTAAACCCTGATTTGACACACTCTTATTATGGTGTCTTTTCTCCTTAT
TTGGCTAAATATTTCTGACCATCATAGCAATCTTTTCTATAAAGGAAGCAGGCAAGAGAG
CTAGAGTGAAAATGTTAAAAACAAAACAAAAGACAGCATACTGGCTACCAGTTTTTCT
TAATTAAGATGATCTGTTTTCGCAATTGCGTAAATTAGAATAAAATGTTATTTAACTCAA
GGATATTTCTTCACTGAAAGAAAAC

Sequence 1021

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTACAGTCTTAAGATATCCATACACCCCCAC
ATCCGTCTTTGTGCTAGAAGATTACTGAANATTTAATTCCATTTATGTCAATTGGATTG
TAAAAAACCCCTTCTGGATTCAAAGATGAAGGCCTCACTTACTTTATTTTGTCAATTTT
ACAGACCCCTTATGTAAATGCCTCAAGAGTAAAGAATCTTGCTCAAGTGATTTTGTATC
TCCAATGGCTAACAAGGAGCCTGACATAGAAGTAGCTGCTTGGTAAATATGTGTTTCAATC
ATTCAACAAATACCCCCAAGGGACCTCGGGCCGGGACCACCGCTAAGGGCGAAATTTCC
AGCACACTGGGCGGGCCGGTTACTAAGTGGATCTCGAGCTCGGTACCAAGCTTGGCCGTA
ATCATGGTCATAG

Sequence 1022

CCCTTAGCGTGGTCGCGGCCCGAGGTACCGTGTGGGCCACTAATACATAAGCATCTGTGT
TGGCTGGGGGTAGGTGTAGGGGGTGTGTTGGGGAGAGATTTAAACAAACCCCTTCTCTAC
TTGCAACATCTCTTAAAGCTTGTATCATGTTACTTCTTCTTTAGAGTTCATTTG
TTTAAAGACGGAAACGTGCTTCATCTTGTTCGCTTTTTCTGCATCTTTGTAACTTAATA

Table 1

TTCTAATTANCCCCAACACGGAAAAGAATGTAACACAACGTCTTAGTTGTGCCATAGAG
TTAGAATCTATCTATTAACATGTTTTAGGTNATAACAAGAAAAATAAAAAACAAACCT
ATTATGAGAAGCTGCCCATGCCAATAAATTTGAAACATTACCAGGAAATATAAAAGGAA
NG

Sequence 1023

CCCTTCGAGCGGCCGCCCGGGCAGGTACATATATTTCAAACAACATTTTCTAAATTAATT
AATGTTTTCACTCATAATTATGTGTTCTTCCCACCTTCTATATTCTCTATTTGGGGAATA
ATCCCATCAACCACCCAACGGCCCCAACCCAGGAACCTGAAACTAACCATATTTCCCTCCC
ATTGCACATAAATTAACCTTCTAATCCTACCTACTTATCTTTGAATCCACTCTTCTATTTG
CAGTGGCAATACTTAGGGCTTNCCTTACTTTTTACCAGGACTATTACTAGAGCTNCTTAA
ATGCTTTCTATCTGTAGGCTTACTCTTCTGCATTTCTAT

Sequence 1024

CCCTTAGCGTGGTCGCGGCCGAGGTACCCACAATGGAAAGATGATCTTCCTGCATTGTGA
AGGTTGTTCTCATCAACCAAGCCTGCAATGACTAGACATTCTAAAGAGAAGAGTGATGGC
AATGGAAAGAGGACACATCCGCTTGCCAGGTCACTTCTATCAGTTGATGACATGCCATAT
TGTTATGGCTAGGTCAGCTTTCCACAAGTATGCACATGCAAAATAGAAGCTTGGGAAAAAA
ATCTTTGATTTGGCCCTTACCAAGTGGATCAGGTGTGTCAGAGTTCAAGTTGAGCAAAAG
GTCAGAGTTTAA

Sequence 1025

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGTCTCTCCCTTCGGACCACTCTCCCCACTA
GACAGCTGTATGGCCGGCTCCCTCACTCTCCTCAGGTCTATCAGAGGGTGGCCACTGACC
TCATTGTCTCAAACATTATATAGAACACACACGCACCCATGCACGCACACCGTCGTTCTT
CATCCGCCTGGTTCCGTGCACTATTCCAGGACCTACAGCAGTGCCTAGAACACAGAACAT
CCATTAGCAACATTTGTTAATGAATTTATAGTGCCTAAACCTGCACAACCTCTGACTTTG
CCTTGCTATTAGAAAATGCAAGGCCAGGCGCGGTGGCTCACACCTGTAATCCCAGCACTT
TGAGAGGCCGAGGTGGCGGATCACTTGAGGTGAGGAGTTCAAGACAAGCCTGGCCAACA
TGCGCAACCTNTTCTTTACTAAAAAT

Sequence 1026

CCCTTAGCGTGGTCGCGGCCGAGGTACTGAGGCTAATGGTCTTAGTTGGGATAAGGAGAG
TGGGGAAGGGGCAGGGGGAGATGATGAAATTCATTTATCCTCTGTGATGCTATGGAAGAA
CAATTAAGATCATGTTTCCTACTTGATTTAGTTGCTAGTCATTTCTTAATCTAAGCACC
CCCTATAATTTACCTATGTCATCATGCAAAATCACCATCGGTAATAATGTGGGGCGGGG
GAAGTCTATACAAGAATATTAAGGCCCTGTGCGTGAGCATGTCTATAGTTAAAGACTTAA
TGAGAAAGCATCAAATTGTGGTGCAACAGCTGAAAGTAGAAGTAAATCACAACGTAATA
AGATGCAACTTTGGAGGAGCTCAAAGCAACANATACGTTTTTTATCCAAAAAGGAGTAAA
AGAAAAAATCGCNACGGCAGTTCCCTTCAGATAATCAACNGATGATTTTCATTGANAACCA
TAATTAAGTAGCGTTGTTGTAAAATAACTTTTTTTCATTTATACNTTTTAAAGNTTATTA
A

Sequence 1027

CCCTTAGCGTGGTCGCGGCCGAGGTACTAATTCCTTTTCTCTTTCTAGACCGATTCTAG
TTTGTGCTTCCCTTTCTCGGAAACCCCAAGTTTGTGGATGCTGCAGACACTCTGTGC
CCCCCTGCATGCTGGGTGCTGGCCAGCTGCCAGGGCATAAAGACAGAGACGATGTGGCC
TTTGTCTTAAGAATGAGGTTTGAAGCCCCAGTTCTTCCATGTTAGGTGATTTCTTGCA
GCTCTTGGTATCTGCAGAATTAGTGTGAATGCTTAAAAAATATTAACAGCTTT

Sequence 1028

CCCTTAGCGTGGTCGCGGCCGAGGTACTATGGGTGTAGTGTTACTATTACAGTTAATCCG
TCCTTTGTGTGAAGCTGTTAAATGCAGTGAGGATTGGAGCACTGTCCACTGAATCTCTGT
GCAACAACTTACTCGGTGTGGCAGGGGNTCCNGGTGTCTGGCTCTGATCTTGGTCGCTG
GATAGNCGNCTGTNTNTCTTAGGTGCCCAAGGCGACGGC

Sequence 1029

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTAAACATTTAGACTCCTTTGTGCCTTNTGG
AATGGGAATTGCTTAAGCTGTCCTGAAAAAATNGCCTTTAACATCTGTTNGATTGAGATT
TGTTATACATAGAAGTTGGAGGAAGATGTCGAAAGCCCTAAGAGAGCTACTTGCCAAC
CCCACCATNAGGTCTNCCTCAGTGTTCTAGTCAGGACAGACGAGGCCGAGTCTGAAATT
ACGATAAGNCTTTGAATGCAGCATAAACAGACC

Sequence 1030

Table I

CCCTTTGAGCGGCCGCCGGGCAGGTACTTTGACCTGTATGTAACTCTAGTTACTTTGG
TCTTCTCAGGCTCTTGACTCTTTACAATTAAAGTAGTCTTTGAGGCTCAGCNCTGCTTT
CCTCATAGCTATGCTATTGGCCTGGACACTCAAGGGAGTATAAGCTNGAGGCAAACATGG
ACTCATTTGTNTTCTAACTTTCAGGGGATTATTTGNCCATCATTGCCTGATGTCCAGTG
TCT

Sequence 1031

CCCTTAGCGTGGTCGCGGCCGAGGTACCATTTGTTTTGTTCAAAATCACAATTTAAATACT
TCGTGATTTTAGAAATAATTGGAGCCACCGTTTTACCATTAAGGTGAGTGATTGTTTCTAG
ATACATTTGGCACTGTCCATAGGTTTATGGCTTCCAACCTGTTTAAAGACCATTCCCAGAG
TGAGAGCTGATTTGCCATGGTTATGAAGCTTTTCAAGGATATAAACTATAAGAATGACAAAC
TACAGCAGTTGAAAATGTGTCTTCAGATACTCACTTGCAACTCCCATTTATGTCTCTAGG
GATTGAGAAATGAGGATCGAGGGACCAAATCTGGCTTGGTCAGTAAGAGTGTAAGGTAACA
TATAAATATTAATGTTTCGTTGNAGTTAGTGTGGTACCTGCCCGGGCGGCC

Sequence 1032

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGGTGTGATCGCAGCTCACTGCAGCCTCAAC
CTCCCGGGCCCAAGCAATCCTCCACCTCAGCCTCCCCAGTAGCTGTGTTCCAAAGAAAT
TTATTTATAAAACAGGTGTTGGGCTGGACTTGACCCGTGGGCCACAGTTTGTCAACTGCC
ATTCTGTAAAGCTTAACATGTGTTAATTACTGCAATCTGAATAACAATGCTATGATATAGA
CACTGTGTTCTTTTAAAGACAAAGGAACCCAGGCACAGAAGGATTGACTAATATGACC
AAAGTCACACTGCCAGTGAGTAGCAAGCCTGAGCTCTGAACCATGACAGTTCACATCTTC
CACGACAGCAGCTTCTCAATGCTCTTTGGAGGGACAGAGCCCAGGCAGTAGCAACGGCT
ATGAGGTGGTGAGACATGACCAGCAGATAAGCCCTGGGCAATGGTCCAGAGCTGGAGGGA
GTGGAGAACTAGCCATTTGTGACTTTGTGAACAATCCCTGGGGGAGTCTGGAAATTA

Sequence 1033

CCCTTAGCGTGGTCGCGGCCGAGGTACTAGATTGGGTGTGTGTTAAGAGAAAGACAGG
AGTCAAAGATAGTTCCAAAACCTTTGAACAGAACTGGATGAATACTGTTTACTGAGAT
GGGGAACACTTAGAGAAAAATGCATTTGGAAAGCAGAAATACGATCAAGACTTCCATTTT
TGATACATTAAGCTTGGTATGTTTAAATCATAGCTATATAGAGGTATTAATTTGGCAGGA
CAAAATCATAGCTAGAGATAAAAATTTAGAGTTTACCAAGTGTAAGATGATATTTGATGG
CACAGGATGGACTTTCTTCTGGGATTTGAGTATACATAG

Sequence 1034

TCGCCCCGCGTCCGNGNACGCGTGGGCAGGCATTANTTNNNGCCAGTTTATGAGTGTGA
GCATACCACAGTACTGATTACTGTGAAGCTGAGNCCCATTATATGTTNATTGATGTTT
AAGATTTTCTGTTCAACAAATTGTTTCAATTTCTTTGCCCGTNTTTCTTTNTGAGTAATN
CTTTGTATATTCNGGATGTTGATCATTATGGATTATAAAA

Sequence 1035

CCCTTTGAGCGGCCGCCGGGCAGGTACCATTTAACTGAGTGAAAGCTTTACAATTGAG
GGGTACTCATTAGCAGGACCTGGGTTTTGTTTTTAACTCTATTAACCCCTTGTTACCCA
TTTGATAACAAAGACTTCAAGGAAGAATTTGCTCAAAAATCTCTGGGAGACAGTAATAGC
TTCTTGGGCCCTGACTGATAAACTTTTGCCTCCAGCAATGGAAATGTGGGAAAATTCCAG
ATGCTAAATGATCTGGCTTGGACCCAGCAGGTTGAGGTAGTGGAGCCTTTCGATTGAGGC
ACAGCCCAGGACTGCTGCAAGGGAGAGGCACAACAGAT

Sequence 1036

AGTCGACCACGCGTCCGGTTCGAGCGGTACCACGAGGACGCACATATGCTGGACACTCAG
TACCGCATGCATGAGGGCATCTGTGCCTTCCCCCTCTGTGGCGTTCTACAAGAGCAAGCTG
AAGACGTGGCAGGGCCTGAGGAGGCCGCCAGTGTCCTGGGCCACGCTGGCAAGGAGAG
C
TGTCCTGTCATCTTTGGCCACGTGCAGGGCCACGAGCGGAGCCTGCTGGTGTCCACGGAC
GAAGGGAATGAGAACTNCAAGGCCAACCTGGAGGAGGTGGCTGAGGTGGTCCGTATCACC
AAGCAGCTGACCTGGGGAGGACCGTATAGCCCCAGGACATCNCCTGCTCACGCCCTAC
AACGCGCAGGCCTNTGAAGATCATCAAGGCCCTTCGGCGAGAGGGCATCGCCGGGGTGGC
CGTGTCTCTCCATCACCAGAGCCAGGGGAGCGAGTGGCGCTATGTGCTGGTGAGCACCGT
CCCGCACCTGTGCCAAGAGCGACCTGNACCANCNGGCCACCAAGAGCTGGCTCAAGAAGT
TTCTGGGCTTCGTTGTGGACCCCAACCAAGTGAACGTTGGCTTTCAACGCCGNCCTCAAG
ANGGGCTCTGNCTGATCNGAGGACCACCTTCTNTTTCGCTTGTGCCCCCTTTGGCCGT
AANCNTNCTGGACNTTTTGCAGGNTTAAAAAACCTTTTCCCTGGCCGGCCAGGTGCC

Table 1

CCTTNTTCAGGAAGGCCAATNTGCCTTTCTGAAAAGNCTTTTCACCTGCAAGNTGCCAGG
ACTGGGANGGGAAAGTTNAGGGCCCCC
Sequence 1037
CCCTTTCGAGCGGCCGCCGGGCAGGTACCATTTAACTGAGTGAAAGCTTTACAATTGAG
GGGTTACTCATTANCAGGACCTGGGTTTTGTTTTAATCTCATTAAACCCCTTGTTACCCA
TTTGATAACAAAGACTTCAAGGAAGAAATTTGCTCAAAAATCTCTGGGAGACAGTAATAGC
TTCTTGGGCTGACTGATAAACTTTTTGCCTCCAGCAATGGAATGTGGGAAAATTCCAG
ATGCTAAATGATCTGGCTTGGACCCAGCAGGTTGAGGTAGTGG
Sequence 1038
CCCTTTCGAGCGGCCGNNCGGCAGGTACTTTGACTATTTTTAGCAACAAATTACTTTT
GACACACAGCACAAATTGATTTAACTTCCAATTTTGAACTATTGGATAAATAATGATG
GGATTTAAATAAGCAATCCGATTCTACTATTACAGCATAGGGTCTCTTGTAGTCCTCTT
AGTAAAAACTATTGTGACACTTCCTTCTTCTCCAAATATTCGGCCTGGAAAGACCTAAA
TACAATGCAGGGATTGAATCAAATTCACACATTTTTTTTCTACGGAAACAACACCTTT
CTTGCTTATATTTAACAAAACTAGTATAGATTCCCTTTATATTAATAGTTATATGGTAT
TTTTTCTCAGAGTAGAAATCAGGTTTATAGGCTAAAGAATATAGGCTAATTT
Sequence 1039
CCCTTAGCGTGGTCGCGGCCGAGGTACTTAGATCAGATGGATTGAAACATGACAGCCCCA
TTTCATCTGGCCGGTTAAGGTCCTCATGGAATGAAAAACACTTTCGGGCACTCTCCTATG
AGAGAGAGAATGGGTTTCTTAATTGCCAGATTGTCTGAACACAGCCTCAGCTACTTCTA
GGAATAAGACGAAGCAGTGAGGAAGTTGCCAGTTGAGTGATTCTTGGGAAAAAAATTAG
CATTCACTGCCAGCTCTCTAAAGTGTGGATTCTGGATTCTGGTAGAAGCCAGTAAAGAAA
CGTTTTCTCTGGAGTGGAGCTAGTAAGATTTATTCTGTGGTGATGAAGCCATCTGAAAC
CTTACAAGCAGTGTGGTTGTATCAGCATATGGGAGCTGACTGCCTCAGGACTTTGGAAGC
CTGCTTCTCTGTGCCTCANCCGGAACCTCAGGTTACTCAGTAGTCATTTGCTAATTTCTGA
GAACGCANCACTCCTGAAGGGGATAGAAAGCATGAACAATACCC
Sequence 1040
CCCTTTCGAGCGGCCGCCGGGCAGGACTCTTATCAACTGTTTTATAGATGAGAAAAACAT
TAGCCACAGCTTAGCTTATTTGAAGTCACAATAATATTAAGTAAGAGCAAAAGCCA
AGATTCAAATGTAGATTATTTACTACAGACTGAGAAACGAATTAACTAGGAGCCTAAG
ATACTTTCTGGAATTGAAATGATACATTATATACCTATAAAGATAATTGGCTATAGCT
TCCTAAACTACAAATTGTCATAAAATGACTTCTGTCTATATCAATTAGAACTGGTAT
TAAATTGAGTATTATAAGACAATAGAATGT
Sequence 1041
CCCTTCGAGCGGCCGCCGGGCAGGTACTGCAGGGCCCCAAGAGCATACAAAGCTAGTTAT
TTGGATCCAAAGTTGGTCAAGTGTGCAGTGTAGACATCATGATCTAGGCCAAACAGAAT
TCCTGGCCTGAAATATGTCACTAGTTAGAAACATTAGAAGCTTTCAGGTAATAAATATA
AAAAACCACTCAACCGTATTCTTATTTCTTCGTCAGAGAATCATGTGCTGTTTGGTTTAA
CTTCCTGCTGGATTCTGGATGGGAGTTGTTGAACATATTAATCTCATTATTTCTGTAGA
GGACAGGTTGTCCCCCTTCTCATTAGCG
Sequence 1042
CCCTTAGCGTGGTCGCGGCCGAGGTACCCGTGCTTTGATTATTTCCGAATCCAGTGGGTAG
AGAAGGTAAAGGCAAGGGCTCACTGGATATTTTAAATTGTAGGGATGTCTTTGCTCTG
GGTCAATTTTAGGATCAAATATAAAAGCACCTATAGCTCAGAGTATCTTCTAACATAAAA
CTTCTGAGATACCAGAAATTTCCAAACATGGTATAAACAGTATGAAACACTGGGTAGA
TAAAGCTTTCTCTAAATCTTAAAGTCTCAAATATCATGACCTGATTTTTTAGTTTAG
AAATCAGATATTTTCTATTCCATATCTTAACTTT
Sequence 1043
CCCTTAGCGTGGTCGCGGCCGAGGTACCCGTGTTGTCCATGGCTATTCCAAATACCCCCAT
GTTTATTTAAATGTATATATAATCAGTTACATAAAAAGAGGTATGCTTAAATCTCATG
ACTCTATGGTTGGACCTCTGTGGTTGGAGCAGGCAATAGAAATGTCTGTAATTCATTTAA
AAAAAAGTGACTTTCTACCTTTAGATAGTGAGGACAATCTGTTAACTCTTTGTGTTG
ATAAAAGCAAACATTTCAAGGCACGGTGAAAGAAATCTCTACCATGTATAAGGTTATATA
TATACCAGAAGCAGTGGAGTTAGGACCAAAATTAAGATTGA
Sequence 1044
CCCTTAGCGTGGTCGCGGCCGAGGTACATAATGTAATTGTTACATATAATTGTTGTATAC

Table 1

CATAACTTACTATTTTTCTTTTTATTTTTATATATAATTTTTTTTTGGTTTGTTTGT
TGTTTTTAATAAACTGTTATCACTTAAAAAAAAAAAAAAAAAAAAAAAAANGTCCC
TGCCCGGGCGCCGCTCNAAGGG
Sequence 1045
CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTCTGGGTTGTGAATCTTGAGGTTGCC
TGTCAGACTGGTGAGATCCCAGTTAGCTGTGCTAGCTAAAGCAAGGAGAACAGAGAG
CCATAGATACTTTTGCTTAGTAAATCTTTCTTGAGGGTAGGGACTGGAGTATGGAACC
TTTTCAGAGGAATGAGAGGGGCTTGTGACGAAAGGGTAGAGGAGGGAATACCTCCCTGCA
AAATCTTACACAATACTAATGTATAGGCCGAGGATGAGAAAGTAGCACTTAACTGT
TTCATCCTCATCACATAAAGCATTCC
Sequence 1046
CCCTTCGAGCGGCCGCCCGGGCAGGTACAGCACTTTCAAAGTAGTGGAATATAAATCTT
TCCATTTAACAGCAACATTCAAATATTTCCCATTTCTGCTTATTATTCCTCTCTGAAGGTG
ATACATAGAAATATAGGAGCAAACACAGCAATGCAGGCGCTCTATGATCTGGTTTGCTCA
CATAGATCTTAAAGGAGAGAAATGAGGGATTTCCTACAACCCACAGCCAATCTATGTG
GACACAAAGGGTGACTTCTTCTTCTATTACGTTCTTGAGGTAGAAATGGTAACTAGC
ATGACCTCGAATCATAATTTAATATCATTCTA
Sequence 1047
CCCTTCGAGCGGCCGCCCGGGCAGGTACATTATTGGTAGTATCTCAGAATCCTGCTTAG
CTTTGAGATAAACCAAGTCATGATATTTGGGTAATATGGCCATAGGTATCATGCAAGA
TTGAACTGCCAGTATTTGCCTTTTCAATTTTACTTTGTAAAGAACCTGACACTGTAGG
TCCTCACCACACCAAAACCTGCAACATAAACTTCAATTTTGGGCAACTCATAGACCAAAA
AAGCTAAACAAAACAAAAGGAAAAAACCTCTATATACAATCACCTGCTTGTCTACAT
TTAATTTGCTTCATTCAAAATAAGCA
Sequence 1048
CCCTTCGAGCGGCCGCCCGGGCAGGTACAACACTTTAAAAAGTGAATTNTAAGCTATGT
GAATATCTCAATAAAAAACATTTTTAAATAAAAAACAATCCCAAAGGCCTGGAAATTCAG
GAACATAATTCAAATAATTTATGGATCAAAAAATAATCATATAAAGATCTGAGAACTA
CAATGTAAAAATATAGAAAAAGTCATAACAATATTAGANAAAAATTTGAGCTGGATAAC
AAAAATAGTACCTCNGCCNCGACCACNCTAAGGGCGAATTCAGCACACTGGCNGN
Sequence 1049
CCCTTCGAGCGGCCGCCCGGGCAGGTACCTATAAACAAAGGCATCATAAATAGATATAA
AGCCAGAAGAAAAGGGATCTAAAGTAGACAGAGAAGATAGGCTGACTCTCCAGTTGCAGA
TTTTATTATCAGCTCATCACACCACCGAAACTCTCTGGTGATTGCTATCCACATCCAT
GGCGTTTGGTGGCCCTAAAGATTGAACGGCCCCCATCCTCTTGTTAAATGGCAGGTG
TGTGACAAGAACTGTCTTAGGTACCTCG
Sequence 1050
CCCTTCGAGCGGCCGCCCGGGCAGGTACCTCTCATCTCCAAATCAACTAGACTCTTATG
TTAAGAATACTAACAAGAAAAAATCCAAACCCCCAATAGAAAAATCCCCAACAACAACAT
ATACCCCTAAACACAAGAATTGTATTATTCAATGAAAGCAATACAAGTAAACACAACAGT
TACCTTGGCTATTTTTTCAATGTACCTCGGCCGCGACCACGCTAAGGG
Sequence 1051
CCCTTCGAGCGGCCGCCCGGGCAGGTACCCATCTCTCCATTCTGGGAATCTGGGAAAC
TAAGCCTGTAACCTGTAGCTTGTAGAATGAATGATGGAGTAGAATAAATAAGAAAGGAAT
ATATCATTAAATGCACAGGTAAATAAATAAAAAATCTATTAATAAAGAGCCTAAAGAAAG
AAAGATGACATTTAGCACATATTGGGTGAAATAAGTTGTTAGTCCAGCACTTCTCAAT
TTTTAGTGGATATGTGAATTGCCTATTAATAATGCAAATTTTAAATTAGTTAATCTGGGT
GGACCTGAGTCTGCGTTTCCAACAAGCTCCAGGTGATGT
Sequence 1052
CCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTATAGCTATATACTCATATTTTTATT
TTTATGTAAATTTCCAAATGCTTAATATGGCAGTATAATAATTATACTAGATTACT
TCAAAACATAGACATAAAGAAGATTACATGCCTGTAGAAGTTCATTGAATTAGGAATCAC
ATGCTATTTATTTAGCAGATATCTTCTTAATTAATGTTTGACCCATGTGAAGTCATT
AACAGATCTGTTACGCATTATTCACATATGCAAAATAATCTATATGATCTGAATACCATT
TCCATCTTTAAATACATATTCC
Sequence 1053

Table 1

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAATCAAAAAAGACAAAAAGAAATGGTGT
AAAAGCCACAGTAAACATAAACCTCATATCAAGTATAAAACCACACACACTTTGCTCTTC
ATCCGGACAATGCCAAAATTATACTGAGGTATTGGGGTGGGCTGATACCTTCAAACAGG
GAGAGAGGGACCATGTTGAGGAGGTGATTCTCGATTAGGTGGTGAATTTTTTTT
TTTTAAGACAGGGTCTCACTCTGTCAACCCAGGCTGGAATGCAGTGACGTGATCTCGGCTC
ACTGCAGCATCAACCTCCTGG

Sequence 1054

CCCTTCGAGCGGCCGCCCGGGCAGGTACAATGAAAATTACAAAATACTGTTGAGAGAAAT
TAAAGAAGACAAATAAATGAAAAGAGACGGAACATGTTTTCGCTTGTAACCTCAGTAGG
ATTAAGATCTCTCTCTCCACGACTCTATAGCTTTAAAGCAATCAAAATCANACTGGTT
TTGTCTGAACGTTTTTGAATAAGTCAATGGCTTATTTCAAATTCATATGAAATTTCAA
TGCCAAAGANTAGGCAAAATATTTAGAAAAGAAAGATTGAGGATTTGCAATAACCT
GACTTCAAACTCACTAGAAGACGAGGCCAGACTGCCAGGGG

Sequence 1055

CCCTTAGCGTGGTCGCGGCCGAGGTACCCACCACGTTCACTGTCTCTCTAGCCAACTATA
AAGTTATTAACACAAGAACCCTGTCTTATTCATCACAGTATCACCCACAGGGGCTGAGAC
AGTGCTTACACAGAAATGGCCCTTGATAAAATATGGGCTGAATGAATGAACATATGAATT
TGACACTTTGAGAACTAAATTAAGTTATTTCTACTAGCATTTTTAACACAAGAACTAT
TGAGATTACTTATATATTAGTAGTAAATGTTTGTCTTATTCATTTTGATTGCAAACTT
ATAATGAACCTCAGTGAACCTTGNCACCTTTTT

Sequence 1056

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTAACCTCACTGACTTACTCTGGGTTGCTAT
TGATTAATAATCTGTATAGACATTACGTAGCCTCAGAGTTGAATTTGGACTGCCCTTAA
AATAAAAAATCTTAAATCTTAGTGTGGTGTCTATTAATTTTTATGATGATTTACAAGT
TGGAAATGATTACTTTGCAAGTCATAGTTTACTTTGAAGTTAATAAGAGTGATTACAGTA
AAGGAAAAATGCCATATATGGCATTGTTCTTAACAGCTTATGAAATTTGAAAAACGATAT
TTAGAAAGCTTTCTCTTGNTGGCTGGAATGAAGTGGAGACCCTGCT

Sequence 1057

CCCTTCGAGCGGCCGCCCGGGCAGGTACAGCTTGTTGAGGATATTTCTCTATTTTTCT
TTGAGTTCTTGTTCATATTCTAGTTAATTTCTAGTAGTTCTTAATGTATTTTAAACCAATA
GACTTTTGTCTTCTCTGTATGTATTCCTCGTAAATGCTTTTTGTGACTTGTCTAAG
TATAACAACCTTTACTATTAGCTGTAAAATTTTCATTTTTAGTAGTGCATCAATCTTTTT
TTGTGNTTTAGTATGATTAATGGTTTTTCACTTGGAAGATATTGAATAGTCTACTTCA
TTGATTTTTTTTTAAAGTCATTTTCATTTTTT

Sequence 1058

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTATACCAGAGTTAAATTGCCTGTGTTCTTTT
CTGCCATTAACCTGGCTTTGGGTTGGGAAATTCAGATAATTCACCTTTTCCAACCTTAAAA
TGAGATCTCATTCAAAACAAAATTGCCACAACCATTTGGAATATGTGTTTAAATTAGAC
AGTAATGCTTTGAAAGTGGAATTAACATTTTCAAGATAATAGCTGTTAGGCCGGGCTCA
ATGGCTCACGCTGTAGGGAGGCTGAGGCAGGTGGATCACCTGAGGTGAGGAGTTCGAGA
CCAGCCTGGCCAACATGTTAAACCCCTATCTCTATTAATAAATACAAAAATGAGGCATGGT
TGGCAGGTGCCCGTTGTCCAGCTACTTAGGAGGCTGAGGCAGGAGAATTGCTTGAACCA
GGGAGGTGGAGGTTGCANTAAAGCTGAGATTGCGCCAGTGCACCTCTAACTTGGGCAACAA
GAGTGAGATTCTGTCTCAAAAAATAATAAATTAATAAATAATAGTTGGTAGATTGAAC
ATAGAAAACACGTTTTGTAGATAAAAANTGGCCAAGTNTTAGCCACCTTGACAATTTTT
TAAAA

Sequence 1059

CCCTTAGCGTGGTCGCGGGCCGAGGTACTTTAACAAATTAATAAATAATTTTAAATTTAA
ATATTTTAGAAATTTTACTTAATACATTTATTTAATGAAGGCTGCTTTTAAAGAACTTTAA
ATCCTCACGTAAACACCACCACCTGCAAGTATTAATATCAACTTTTTCAACAAAATGCC
TGCTATGTATAAGCTACTGAAAGAAGACAAAAATTAATAAATGTGTCCCTCTCTAGA
TATCTATAATCTAGGAAAATGAACACATTTTTCAGACACTAACTCCATAAGAACAGG
CATCAGATCTATCTTATTTACCACCACATCCTGAGAATGGAGCACAGTGCCTGACACATA
ATAGATGCTCATAATAGATGCTCAGGTTTATAGTCAGTGAATAAGTAAAGAAATGAGTG
AGCAATATCTCTTAAAAAGAACAGACTTTTAAAGTTAAACAAGCAAGTGATGTGTTATTC
AGTAGCAATAAGATTGTTTCTAATGTCATAATTCATTTTT

Table 1

Sequence 1060

CCCTTCGAGCGGCCGCGCCGGGCAGGTACAGTTACCAAAACCCATCCAACATAAAATTTAA
GCTTTTGCATTTTAGTGGATGCAAATTTGTCTTAGTAAGAAGAACATACAAAACTAA
GAAAGATAATGTTGAAGAAAATAACAAAGCTTAAGGACTTAACTATTACCATCAAGACA
TGTAATACTACAGTAATTTTAAAACTGTTTCTTGATAAGTATAGAGAAATGTACCTC
GGCCGCGACCACGCTAAGGG

Sequence 1061

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTACGCTTTATGATCTTGAATATTTTCAGNGT
NTAAGGAATCTCTTCTCTTTGATCTCCACTGCATGAAGAACTCTGTTGCAGGTGTTAA
CAAGGAAGTTTGAATACAAAGCCAGAACCTGCCCCCAAAGATCTGACAGTAGTANAA
GGAGATCCATTTGAAGAAGGTATAATGGCAACC

Sequence 1062

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTAACAAATTAAAAACAAATTTTAAATTTAAA
ATATTTTAGAAATTTTACTTAATACATTTATTTAATGAAGGCTGCTTTTAAGAATTTAA
ATCCTCACGTAAACACCACCACCTGCAA^AGTATTAATATCAACTTTTCAACAAAATGCC
TGCTATGTATAAGCTACTGAAAGAAGACAAAAATTAATAAAATGTGTCCCTCCTCTAGA
TATCTATAATCTANGAAAATGAACA

Sequence 1063

CCCTTTNAGCGGCCGCGCCGGGCAGGTACACAAATCTAGGNAATCTAAATATTTAAAT
GTCTAGAATTTTTTTCTTTATGAACCANATCACATTTCTGGACATGCTAACCATTAAA
ACGGNGAAGCTTCAGCTTGGTTGTTATTCTTCCATTAACTGTTTCAGAAACATTCAGGC
GGCAGATAACTCATTTGGATTGTTAAGAAACACCAGGTTTCCAGATGCTACATTAACAC
CTCATAGAAGTGGTCTTTCATATGTATGTTATGNATGATGTNAACCATAATATATATGGN
TAAATTTTAGTAGGAGTTATCCTTTGCTTTTATAATTTCCAGTTTNNCGNNAACGTA
ATTCCTTTTTTCGGATTCATTTTTAGGTAAAAATGGTCCCATANTTTAAAGGATAA
AAATAAAGTCTTACTTTTGAAGTCTTTAAGNCGTNNATTTNGCCANTNNTGTTCCCGTT
GGAACNAGAAAGGTNNTAANCCNTAAATTTTGGAAATTAACNCGCCTTTNAAAGNN
ATGGAAGATTCTTCGACCACCNNGNTTTANTAAAAAACNTAAANTNGAATCCNGAA
NNAANGGGGGGGGNGGTACCCGNGGGNTTATTNAAACCTTAGNANGNTTTNTTTNT
TCTGGCTTTAAAAATTANTGNNNTTTGCNNTAAGGGCCAGGAAACNTAGGGTTTTGGA
AAAANCNAAAAANTGCCCTTNGGGGGCTTNTTCNAAACCCGGGGCNCNCAAAAAANAAAAA
AAAAA

Sequence 1064

CCCTTTCGAGCGGCCGCGCCGGGCAGGTACTTACTACAAGCAGCAAAAGGAAGCTCTAGAA
CAAGGAATTAACACAGTGTTTGTTCCAATCGCAGAAGAGGCCATGAGCACCATATGTG
TGTCAGGCTTATCATCTGAACCAAGAAAGGCCAATCCTTCACCTTTCTTATGACTCTTA
TAGGCTGCAATATTTCACTTGGCCATAACAACCTTAATATCTCACACCTAGTAGTATTCA
GTGACACAGAAAGGGAAAGAGAAAGGATGAAGAAAAGAGGAAAGAGAAATAATTTNCCCA
AGATACAAATTTAATATTCTTTCCAAAGCATAAGAACAATTAATAATATATTTCTCTGNT
GNAAGTGGAGGATGGA

Sequence 1065

CCCTTAGCGTGGTCGCGGCCGAGGTACATTGAAACAATATAGTAGTCTTCCCCTTTACAA
AGCTGAATTAAGTAAAAGTGTGTGTTGGGAATAATAGGGGAATGTGGATTGTAGCTGTT
TAATAAAGATTTAGATACATATAAAATGCTTAAGGCCAGGCGCTGTGGCTTACGCCTAT
AATCCCAGCACTTTGGGAGGCTGANGTGGGTGGATCACCTGAGATCAGGAGTTCGAGACC
ACCCTGTTCACATGGTGAAACCCCATCTGTACCTGCCCGCGGCCGCTCGAAAGG

Sequence 1066

CCCTTAGCGTGGTCGCGGGCGNGGTACCCACATGATCCCAAAGAGGAGGGGCCCTGTAGA
AACAGAACCAACCAACANAAAGCAGTGNCTACAGGCACCATGACAACAAAAGGAGTTTT
AAAGTGCACTTCAAATAGCACACAATTTCCAATTTAAATAGTTTGAATGAATCAAN
GGGAANAAAGCATTANTTAGATACAACTGAATTTCTCAAAAGTATATTANCACAGCCTAC
AAATAAATCCTTAAATGTA

Sequence 1067

CCCTTAGCGGCCGCGCCGGGCAGGTACCCTCCGTGACTTTTCAGGGTCTCCTGGTTGAATG
AATTTGCANAAGGATTAATAATGTGTGTTCTTATTTGTGCTTTGTATTCTCCATAANTAG
TGTGTTGGAGGCTATTAGAATAGCTGAGAGGGTAAACATAAACACATACGTANGAGCCT

Table 1

GACATAAACACATAGGTAGGAGCCTGCCATAAGCACCGTAGGTAAGAACTAAAAGGGTGT
GTTTCCATTTTCANGNGGTCCAGNCCTTCTTNCATACTCTNAGATGACAAAAACACAAAG
TTGCTGGAGCTCACACAATAATGACTAAANCCAGAAAGTTTGACATGGAGAAACATTT
TT

Sequence 1068

CCCTTAGCGTGGTCGCGGCCCGAGGTACTATATTAGTGTAGCAATTTTCCAAAAGCCATT
CATCTTAGAGGGCTAAATGATTTTACCTTATCAATTCTCTCTGTGAAAAAATATCTCTAA
AGAGGTTTTCTGCTGGAAAATATTGTTGCTGTACATTGATATGCCAACAAAAGCTAAGC
AGGGAAGTCAGGCCAAGAAATATCTNCCTGCAAGAGAAGGCATCGCACATGTATCTCTCC
ATGCTATTTAAAAATTTGCATTCTGCAACATAGAAGGGATAGGCCATGCTGCAGAAGCCAG
GTCCAGGAAAACCTGCTTTCTTTGGCCNNTTACACATCCTTTTGGAGAAGATGCTGGTGAA
AGCAGCAACTACCATCTGCCTCCTGTTGACTTAAGTGAACAGGTGGAAGGGANGAAGGA
AGGGCATCGCAACATCATTCTATTATCTCAACCTTGCTTTTCTCGG

Sequence 1069

CCCTTAGCGTGGTCGCGGCCCGAGGTACCCTGCTTTGATTATTTCCGAATCCAGTGGGTAG
AGAAGGTAAAGGCAAGGGCTCACTGGATATTTTAAATTGTAGGGATGCTCTTGTCTGTG
GGTCAATTTTAGGATCAAATATAAAAGCACCTATAGCTCAGAGTATCTTCTAACATAAAA
CTTCTGAGATACCAGAAATTTTCCAAAACATGGTATAAACAGTATGAAACACTGGGTAGA
TAAAAGCTTTCTCTAAATCTTAAAGTGCTCAAATATCATGACCTGATTTTTTAGTTTTAG
AAATCAGATATTTTTCTATTCCATATCTTAACTTTTATGTTAAATTCTAGTTCTGACAA
TGTAGGGTTCTATTTTTTTCAGGTGATTGTTGGGAGCGTATAGAAGCATATATAAATATG
GAATATGTGTTTCTTTTTTCCCCTTCTGAAAGAAAGTCAAGCCTCTAATCAAATAGATTG
ATGCTTCAGAACTTAACAGAATATTATCTGCAATTTGGCATAAATGCATTTTTCTTGGG
GAAGTTTCCATGGTCAAAATTATTAGTCATTGCAAAACAGAAAAGTTTGACACCTGGAAA
TGCAGACCCTTTTGCTT

Sequence 1070

CCCTTTAGCGGCCGCCGCCGGGCAGGTACATTATATTAATGAAATTTATCTAGTCCTTGCA
AACTTGTGCCTATTGATTTTCATTAGTGTAACCTAAAGAGAGAAACTTCACACTGACATT
TATAATTGTAAGAACTAAGAACCAACCATCAGCTTTTCTATGCCAATCCATGCCCTTCAG
GAAGTTCTTGAGGCCCTTGAGGTTGCTAGTTTAGTAAATTGCTTACTGGGACATTAAAGCA
GCTACATTTTTTGGAAGANGGAGAATTAAGTTTTTGGTG

Sequence 1071

CCCTTAGCGTGGCGCGGCCGAGGTACCAAAACTGAAAAAGATTGTGTATCCAAACATT
ATTTACATAAAATGTATTTTGATAAAGTAAATCCCAAACCATGGTGCTCAGAGGTTGT
AACAGTCCATGTAAGTTGAAGAAAAAGAGTTATCAATCAATACGTGACTATCAATCATTT
ATTTAATCATTATTTAGTTTTTACATATCTAGAAATTCAGTAGAAGAACCAGCCCTTCA
TAAANGTGGCCATTCCCTATACCTGCCATCGATTACATTATTTTACT

Sequence 1072

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTGGAGACGGAGTTT
CACTCTTGTTGCCAGGCTGGAGTGCAATGGCGCAATCTCAGCTCACCACAACCTCTGCC
TCCCGGTTTCAAGAGATTCTCCCGCCTCAGCCTCTTGAGTAGCTGGGATTACAGGCATGT
GCCACCATGCCTGGTTAATTTTGTATTTTGTAGTAGAGACAGGGTTTCTCCATGTTGGTCC
GGCTGGTCTCGAACTCCCGACTTCAGGTGATCCTCCTGCCTTGGCCTCCAAAAGTGTCAG
GATTACAGGCGTGAGCCACCACGCCCTGCTTAAGTTTTAATAAGATCTCTTGGCAACTTT
TTACGACTGGCAACTTAGGTCTCACAACACAGAAAAGCTTGCTTTAAGTATATTGTCT
TTGAAAAGTTAATACACTCTCTAAATGCTCCATTTAAATGATTTACTTTATAAATGCAT
GCACTGAGAGAAAAGATATTTGAATGATATACACCACAATGTTAAATTAAGTNGATTGT
TTCTAAGTATTGGCACTATGGNCAATTTTCTTTTCTTGGTTATGCTTTTCTGAGTTTTT
AAAC

Sequence 1073

CCCTTAGCGTGGTCGCGGCCCGAGGTACCTATTGTATCAGAAAAATGCTAATTAATTTTTT
GCACATAAAGGGCATTTTAACTTGGTTTTATTCTTTGTGATAAATATGGATGATGAATG
GTAATGTTAAACAGAATTCAAAAGTTATCAGTTTTGGCTAGCCAGACACAGTAGATATATGC
CTATAGTCTTAGCTACCCAGGAGGCTGAGGCCAGAGGAGCCCGGAAGTTACAGTTTAGCC
TGGGCAGCATAGTGAGACACTGTCTTTTATAAAAAACAACAGCAAAAATGATCAGTTTGGG
ATAGTAAGACAAATGGCTTTTCTTTTGTAGGAATTTCTATTTAAAGGACTTTTAGGCC

Table 1

TAGAGTGGTGGCTTACGCTTGTAAATCCAGCACTTTGGGAGGCCAATTGCAGGAGAATCA
CTTGAGGCCAGGAGTTGGGGACCAACCTGGGCCAAAGTANGGGAGACCCTGTCTTTNCAAA
AAAAATTCAAAAATTAGCCAGTGAGGGGGGNGCTTGCCTGNGGGTCCTAGCCACCTGG
GAAGGCTTGGGGGTGGGAANAATTACTTGGGCCANGAATTTGANGGTGTAGTNGAGCCT
TTGATNCCCCGTNAACCGAGTANAAGACCCTTNTTTNTTNAAAAACTTTAAANTTNAAC
NTTTTTTA

Sequence 1074

CCCTTAGCGTGGTCGCGGCCGAGGTAAGTGGGTCACTCTGCCCCAGCTCTCCAAAGGCATC
AAGATCCGACTGCTAGGAGCCCCGGCTTCTCCCTGACCTGCCCGTCTCTACACCCTCT
GGTCCTGCTCCACACTGGTCTAATAACTGGTGTCCACATTCTCTAACGTGCACAACAC
AGTCCTGCCCCGTGCTTTTACCTCCTGTCCATTCTCTTATAACG

Sequence 1075

GATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCGGGCAGGTAAGTCTTCAAAGAGGATA
AACTTAAAGAAAATGACTAGATACACATCAAATTAAGCTGCTGAAAACCAAAACAAAGA
AAAAATTTTTGAAAGCAGCTAGAAAAAATTACACACCACACAGAGGGGAATTAAGGTTTA
CATTACAAAGATTTTTTACCAGAAATCAGAGAAGTGAAAAGACAGCTAAATGGCATCATT
GAGGTGCTCAAGGAAGCAAGCATCTACTCGGAATTATATATCCACCTAAAATATCCTTTA
GGAATGAAAGTAAATAAATACATTCTCAAAGAAAACAAAGAGAATGTATCCCCAGCAG
ACTGATCTGCTAGAAAAGCTAAGGTCAACATTAGGCTGAAAGGAAATGCTGCATCTTCAG
GAATGAAGAAAGAGCAATAGAAACAATAATATATAGGAAAACACAAAATAC

Sequence 1076

CCCTTTGAGCGGCCGCCGGGCAGGTAAGTCTTCACTGATTTATGGCAAGTCAGCCAATCCA
TCAGTGCTCAAAGCTCCTTGTATTGTCAAGNATGNNTNNCATTATTTGTCACTCATTCAG
AATTAAGTCCCACTAGTAGCATTGTTTTGTGTCTGATAGATTCTTCATGCAGAAAGA
ATAAGTAAATGAGATGGGACACAAATCTGAGTATAGCATTGTCACTACTTTTGTCTGCA
CAGATTACTTGCAAGAAATATTCTAGTCTGGGGCATAACAAAATCCACAAATCCAGATT
TAAAAAGTAGGTCTATATAAAGCCTTATTTAATATTTGGTATATTTTTTAGTACCTCA
TTGGGNGNCCCTTATNATGCCAAGGCATTTTTTGGGGATCCTGGGTTTCTTAATTAATA
ATAGGAAGAAAATCTTAACATTTCNCGTGGTGGATTAAGAAACNCCNCCCCACCCTNTTT
TTGGATTAANGNGNTTATTAAGTAAAGCTTACCGTTNAAGTAAGCTTCCCGAAAAGAA
AATNTTTA

Sequence 1077

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAGTAACCATGACTTACTAGGTGTTATGATGA
AGGTGTATGTGTGTATATGTGTGCATGCATGTAGATAAGTGTGTGATTTGCACACAT
AAGAGTTTTAAGCTGCTCCTGTCAATTTATGATGGTCAAAGGTTTCTTTTGGCTATTGCT
GGACTCTTAAGATTGTCTTGTAAATTGTCTTTTGTGTTGTTGAAAATTAAGGGTGTATA
TTAAAGGTAGTTTTTACCAGATCTTATATGTGTGATAGCTCACGTCTGTAATCAGAAAC
CTACTGTTTAAATGGCCACCCAATTGCCATTAGCTTCTAGAGGGTGATTTAATAAACTAT
CTTCTTTAAACTCATTTAAATTAAGAGACATGTTTGCATACAATGGATTAATGACGTT
TTCACACTAACCCCAAAAGTCTGCTTGCATTTCTTTGTAGGCCTAACATTCATTTTAT
ATGCATTGATTATTATTGTTGAACCTGCATTAATTACATCGNGCATATATGGACATACAA
TGTCATCTGCAGAAATTAAGGATTTTTTA

Sequence 1078

GAATTGGGCCCTCTANATCNTTCTCNACCGGNGCCANTGTGATAATTCTCCTNTAATNN
GCCGCCCCGGCNGGTACAGACTTTNGTTCCTTTGCTTTTATTTTTTTTTTTTGCATN
GATATGAATAGTTTCACTAATTCATTCATGGTCTGTAAACNTTCTTAAACTTTGTTT
TATGGGATTATCAGAGTAACAAAATAATGTAGTCCCTTTATGGGACTATAAGTAACCTAA
TGCTTTTCTTTCCCTATTTTCATATCCCATATTTGGTGCAATAATTTAATTCA

Sequence 1079

CCCTTAGCGTGGTCGCGGCCGAGGTACAGCTCACATTCATGGGGAGGAAAATCAGGGCC
TGTCTTTAGATAGGAGATGTATCAAAGAATTTGTGGACATATTTAAATCAGAGCACTA
CTCTTGATGTACCTGCCCCGGCGGCCGCTCGAAAGGG

Sequence 1080

TAGGGAGTCGACCACGCGTCCGCTGCCTCGCCCAATGGGCTCATAAACAAAGTGGCCATG
GTGGCAGGGATAGACTTTCTCAGCAACATGGACTTTCACTACCAAGGCAGACCTGGCTA
CAGCCACTGCTGAGTGCCCCATTTCCAGCAGCAGTGCCCAACACTGAGCCCTTGATATG

Table 1

GATCATTCCTTGGGTGATCACACAGCTACATGGTGGCAGATTGATTATATTGGACTTCTT
CCATCATGGAAAGGGCAGAGGTTTCTCCTCCCTGGAATGGACACTCCAGATATGAGTTG
CCTATCCTACACGCAATGCTTCTGCTAAGACTACCATCTGTGGATTACGGAATGC

Sequence 1081

CCCTTAGCGTGGTCGCGGCCGAGGTACACCGATGTGGCTGACATTTGGCTGGAGTCTGCT
AAGATGTTTTCTTATNCTGGATGGACGCAGACCTGTAAACACCCTGTTTTTCATCTTCTCC
ACCATATTTTTCATCAGCCGCCCTCATTGTTTTCTTTCTGGATTTTATATGGCAGCTG
ATCTTGCCATGTATCACCTCGAGCCTTTCTTTTCATACATCTTCTCAACCTACAGCTC
ATGATCTTGCANGTCTTACCTTTACTGGGGTTATTACATCTTGAAGATGCTCAACAAG
ATGTATATTATGAAGAGCATTCCAGGATGTGAANGAGTGATGACCAAGGATTATGAAA
GGAAGAGGAAGAAGGANNAAGAAAGAAG

Sequence 1082

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTNGCTGGTTA
ACAAATATTTAATTCATTAATAAACTTAAATTCATGCTTAGTCTACACAAGTTT
AACTTACTTTAGTCACTTAGTGAATTGTGAATTGGCTCCCATAGTGGTCAGGANAATGT
ATTTGGTGTAANAACCAATAATCAAGCTATTATCGCCTTGTGAGTACCTCGGCCGCGA
CCACGCTAAGG

Sequence 1083

CCCTTCGGCCGCCCGGGCAGGTACTGGGAAGTGCATTGGACGAACAAAAATAAAAAA
AAAAAAAAAAAAAAAAAATTAATAAANGGAAAAAAAAAAAAAAAAAAAAAAAAAT
NNNTTGGAAAAAANAAAAAGGAAACANNNANNGCGGGTTTTTAATTTTNAANCATTNN
AAATTTTTTTAANNANNCNTTNAANNNTNNNTGAAAATGTGANNTTTNNNNNGAATNG
ANCNTNNNTCTTNTNTGGNTGATTTTTATGTGTCCAAATNGTTTTTTTANNGAANA
AAAATTTTTTTTNGAAGNTANACNTNNATTNAAANNATTATNCNTNNNTAAAAATTNN
AANAATTTTAAATNNTTAATGNNNTTAAANTTTTAAATTT

Sequence 1084

CCCTTAGCGTGGTCGCGGCCGAGGTACACATTTTCTGAAATGTCCCCCGTGATTAAGTT
GTGAACAAATGAACATGCCACATGTCAACAACTGAACAAACATGGATTGTTAGTGACTT
ANAGGTGGAGGGAGGGCTAGAGAGAGGCTAGCTGTGTTGGTCTGCCAATCTCCTGTGTCC
CACACTGGCTACAAAAATACAACCACTGGGTAGGTAGGGCTCATCTAGAACCAAAATTAG
GAATAAGGATTGAGAAGAAACTCAGCAAGGGTGATGAATGAGTTTCAGCTCATTGCTGG
AGTTAGCTGAAGAATGAATAGGACACAGTGGATGAAGGAACAANGCTATTCCNGGGACCT
TTTGAAG

Sequence 1085

CGGCCCGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGG
TACCACCTAACAAATTGGAGGAAATGAAAAGACGAATCAACAACATTTTGGAGAAAAAT
TTATTCTACTTCTAGAATTTCACTACTACAAGTGCTTAGTTCTTGGTTTGGTAGATGAAG
TGAAATCAAAATGGATATTTGGAACATTAATATGGGAGCAGAGAATCTGTGGAATTAT
TGCTGGAAGACTGGCATAAATTTATTGAAGAAAAAGAATTCCTAGCTCGACTTGATACTT
CTTTTCAAAATGTGGAGAAATTTATAAGAATTTGGCTGGAGAATGTCAGAATATTAATA
AACAGTATATGATGGTGAAATCTGATGTTTGTATGTATAGAAAAATATATATAATGTGA
AGTCCACTCTACAAAAAGTGCTGGCATGTTGGGCTACTTATGTGGAAACCTTCGCTTAC
TAAGGGCTTGCTTTGAGGAGACCAAGAAAGGAAGAAATTAAGAGGTACCTGNCCCGGGC
GGGNCCGNTCTAAAAGGGC

Sequence 1086

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTGGAGAC
AGGGTCTCGCTCTATCACCTAACTGGAGTGCAGTGGTGCAATCTCGGCTCACTGCAACC
TTCACACCCCAGGCTCAAGTGTCATCCTCCCGCCTGAGTAGCTGGAACCACACGTGCGC
ACCACTAAACCAGCTGTTAATACACCATTTTAAACCAAAACATTAAGAAAAATATAG
GAACAGTAAGTAGATTCAATTTGTAACAGACAAGCTTACAAGTTTTCTCAAAATGAAA
GTCATACTAACTGGGAGACTGTAACTTCTTGATGGGGTTAATCTCTAATATGAAGCCA
CAGTCATAGCTAACTACAAATTACATATACAATGCCAAAAATAT

Sequence 1087

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTAC
CCAGAAGGGCAGACTTCAACCCAGAAACAACTGTGAATTGTGATGGAGAGATGGGCTCTA
GTATCTGAACAACGAAATTACTTATAGACTACTTTCTTTTCACAGAACAATGAGCTT

Table 1

TCTTGGCTTTTAAACAAAATTATCATTGAAAACTACAAAATTAAGATCACCCATAATCCCA
GCATTGAGAGGGTTAATCTTTTGTAAAATCCTTCCAAAAGCTTAAATGTGTTTATAT
GCCTTTGGAAAAAAATTTATTTTATAATCATTTNGGATTTACAGAAAATTGACAAAGA
TAGTACCTCGGCNCGCGACCACGCTAANGGCGAATTCC
Sequence 1088
CCCTTNCNAGCGGCCGCGCCGCGGCGAGGTACATCCTTTTGCATGCTCAAGAGCCCATTCTTT
TCATCATTCGGAAGCAACAGCGGCAGTCCCTGCCAAGTTATCCCACTAGCTGATTGCT
ATATCATTTGCTGGAGTGATCTATCAGGCACCAGACTTGGGATCAAGTTATAAACTCTAGA
GTGGTAAGTGCTTTCACATTCTTTAAGCACTAAAGAAAACCTTTAATTAGCTACCTTGCT
TCCAGTAATCAAAC TAGAGCTCCTCTGCCCTTGTAAGTTGCTATAAAGTATTGACTATT
AGAATGCTTGAACCTTTGGTTACTGTGAGCCAAGTCGGTGCTCAAAGTATATTTTCATAGT
CTCAATTATATAGTAATTTAAGTTCTGAAAAATAGGTTCTGGCTTTGCTATGGAAATATT
TTGNGAGTATTTACTTTGGAA
Sequence 1089
CCCTTTGAGCGGCCCGCCGCGGCGAGGTACATATCCCTATCTACTATGTAAAGACAAAAA
GGCAAAAGGAAATGATGTAATACAATGAACTCCTCAGAAAATAAGCTCTGTAAATCTCAG
ACTGCCCTGTTTATCATATGCTAGAGTAAACTTACATTCTTTCTTGTAGAGAAAAATGA
TGGTAAATCCATGCATTAATCAAACTAAAAACATGAAAAGGCAAGCCAACCTACAAGAG
AAATACAGTTGGCCCTTGAACAACACAGATTTGAACTACATGAGTCCGTGTACCTCGGCC
GCGACCACGCTAAGGGCGAAT
Sequence 1090
CCCTTTGAGCGGCCCGCCGCGGCGAGGTACCGTGCGAGAAGAAGCTACCAAACAGCAAATAT
GGAAATAGTCAGTTTTTTTTTTTTTAAAGCCTCAGTAGAAGAGTGCGAGTTACACTGTC
CTGTTTGGGGTGCCCCCTCCCCCTTNCGACCTAAGTGCTGCCAAGG
Sequence 1091
CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTGCAGTTTTCTAAGGGCTCTTAGTGCTTTT
AACTAGAAAGGGTTTTTCGTTTGTGTTTTTAAAGGGTCCCTTAGTGCTCTTAC
TCCCTTCTGTAAATCCTGTGTAAATGACAAAAGTGCACAATTGATCATTGTAAGTTC
TAGTACCTGCCCCGGCGGCCGCTCGAAAGGG
Sequence 1092
CCCTTTGAGCGGCCCGCCGCGGCGAGGTACGCGGGATCTAAAGTTGGGGTGGGAAGGAAGG
AGAAAAGGGGATTGATTTTAGTGGAAGAACAAGAATGTTCTGAAATTGATTGTGATGGCT
GTATAATCCTGTGAATATACTAAACATTGAGTTGTGCACTTTACATGAGTGAATTGTGT
GGTATGTGAATTTATATCTCAATAAAGCTATTTTTAAACGAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAGGTNCCTCGGCCGCGACCACNCTAAGGG
Sequence 1093
CCCTTAGCGTGGTCGCGGCCGAGGTACCGGTACCTGTATCTTGATCACCAGAGAGCAC
ACCAGCCTGGACAGCAGCACCATACGCTACAGCTTCATCTGGGTTTATGCCACGGGATGG
TTCTTTGCCATTGAAGAAGCTTTTAAACAGTTGCTGAATCTTTGGAATTCGAGTCGAGCC
ACCAACAAGAACAATTTTCATCAACCCGCGTACATGCTAAGACTTCACCAGTCAAAGCGAA
CTACTATACTCAATTGATCCAATAACTTGACCAACGGAACAAGTTACCCTAGGGATAACA
GCGCAATCCTATTCTAGAGTCC
Sequence 1094
CCCTTTGAGCGGCCCGCCGCGGCGAGGTACATGCCAAAGACTTCGCCATAACTTTTCAAGT
TAATTACACCTGCTACTGTTTCACTTAGTGGCACTTTGCTTAACCTGTTATACACAGAAG
GGGTTGAGAAGACAAAACACTGTAACTTCATTATACCTTTGACAAAAGTAATATTATGTG
ACATGATGTGTTTTCCCAAAATATTAGAGCTGCAGATTTAGCTGATTCAATTTATGGGA
CAATTTGTTATGTGATCTAACAATTTGGCATATAATCTAGAAAGCAGCTTTATGATCAA
AATTGATTTTATATATACATATAAAT
Sequence 1095
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTAC
TTCAAAATAACATTTTATTATATAAAATGTAAAAATCCAGCAAAACCAGAAATACGGA
ATATATTTTCTGGGCTTTCACATTTGTGATTTTTATTTCGCGATCTTTTTCAATACAAT
TTACACCTCATCCCCATTTCCAGTCTGATTATACAAGNGCTAAGTGGCANAAAGGCTCG
GAATAAATACATCAAAAAGAAGAGGCAAGCTGTGAAACTAAGTTGCA
S qu nce 1096

Table I

CCCTTTGAGCGGCCGCCCGGGCAGGTACAATCTGATACAAAATCTGAAAGAAAGAACAG
TCTTGTAATCTTTACATACTTGTAAGCATTCTCAAATTCAGCTTACTTTCAAATA
AAGTTCTACTGTCTAATATGCTCTCTTTAAATTTATTAAGTATTTTAAAAATACCCTGG
CTCTTTATCTAGTTTCAATCTAAGTATAGAAAAGCATTCTCTGTAAGGCTGTCTTAAAA
AAAGAAAAAAAAAAAAAAAAAGTACCTCGGCCGCGACCACGCTAAGGG
Sequence 1097
CCCTTTGAGCGGCCGCCCGGGCAGGTACATCTGCAGACATACTGAGTGTACCCGTTGAA
GAGAGTGGAGTGGCTTTTGTAAGAAAGTTCAGGTACATGTCCAGGGGCCAGCCTCTGGG
CCCAGTAACTCAGCTACTCTTTGTGGCTTTCTTCATGGCTTTTTTTGTGGCTGCCACGC
CCATCTTTATCACCAGAATGAGGAACCTCTGGAAGTAACTGCACCATCAGTGTGATAT
CCAACCTTTGAACCAGACGCTCTGCACCCCTTTTCTGATATACTGAGGACACTCGGTCT
CTAGCAATTTCTCAGGTCATCC
Sequence 1098
CCCTTTGAGCGGCCGCCCGGGCAGGTACTACCATTCCATACAATGGAATATTACCCGAT
GAAAAAATAAGTTGAACACATGCTACAACATGGATGAACCTTTGCTTATAAGAACATTGA
AAAGAAATGCCAAAAGAAAAATGAGTTTGTAGCTCAAATTTTTTAAAGAGGCTAGCCTG
CTCAAGATATCCTGTTAAAAAANAAAAAATCTTCCCATATCTAAGGTGAAA
ATAAAAAACATTTTAAAGTTNAATATAAAGAAATGAAATAATTTCAAGTCAAGTTAT
TATACAGAAATTATTAATGGGTGG
Sequence 1099
CCCTTTGAGCGGCCGCCCGGGCAGGTACGCGGGGGAGGTCTCCATTAGTAGGTGGCCC
GGGATGAAGGCCGTGTTGGGGCTAAACCACACTCTGGAATTTCTGTCAGCAAATTCCTCGC
TGTGTGAACCTTGAGCAAGCCATTACCTTTCTTAAGCCATTTCTTGATATTTACAGAG
CCTCACCAAGTATTCAACGAGAATGTAAGTGAATGCTTCACAAAATGCCTGTAAAT
AATAGATGCTTAGAAAATGGTAGAGAGAGAAAAGAGCAGTCTCTGCCCTTAAATGTACCT
CGGCCGCGACCACGCTAAG
Sequence 1100
GGGGNCCCGGGGAAAAATNATTTTGGGGGGGGGGNCCCCCCCCCTTTNCCTTTNANNA
NNTTAAAGGGCCCNNTTGGGNCCCTTCCCGGAANGGCCCGGGGGCCCCCGGCC
C
CCCAGGTTNGGTTTGGGANTGGGGNANTTANTTTCTTTGGCCAAGGAAAAATTTCCCGC
CCCCCTTTTTTCCGGAAGGCCGGGGGCCCGGCCCCCCG
Sequence 1101
CCCTTAGCGTGGTTCGCGGCCCGAGGTACTTGTGGCTAGGAGCTGAGCTTATCACAACAA
ACAACAGCATTACAGGAATTGTCTTATATGTGGTCAGTTGTAAAGCTGATAAAATTTATT
CTGTAAATCTTGAAAACCTAAAAATTTACGCAAGAAAAGACATCACTTGTCTACTGTAA
CATCCAAAGGCTTTGCCAGTATGAGCTCTTTAAGTCTCTGCCTTGATGATACAATCA
CAGCATCACAACCTGCGATCGCTTTGGATATTTCTGGAGTCTGTGGATGAGATTCTTC
AAATCCCTCCACTCTCTTCAACTGCAACTCTGAATATTAAAGTGAATCAGGAGAGCCCA
GAGGTCTTTGAATCATCTCTACAGAGAATGAAATTTCTTCTGTTTTGGCTGATGGTT
TGAGGACTGGTGTCACTGAATGGCTCGAGCCCTGGAAGCCAAAATCTGCTGTTGAACCT
GTCAGGAATTTCTGAATGACTTAAATAAGCTGGATGGGATTTGGTGATTCT
Sequence 1102
GATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCCGAGGTACGCGGGATTCCCCCAT
GTTTTCTTCTAGAAGTTTACAGTTTACGATCTACATTTTGGTCTATGACCCATTTTG
AGTTAAATTTTGTGAAGGTATGTTATACATGTGAAGTTCATTTTTTGCATGTAATA
TCCAATTTTCAACACCATTTGGTTGAAAAGACGGTATGTTCTCCTTTGAATGCTTCTGC
GCCTCAATTAAATCAGTTTACTCTATCTGCATAAGTCTACTTCTGGGCTGTCTACTCTC
TTTCATTGATCTGTATGTCTGTCCATTTTCCAATACCACTGTCTTATTACTGTAGTTTC
ATAGTAAACCTTGAAATCATAATTCTATAGTAAGTCTAAAAAATCACACAGTTGGAAA
TGCACAATTAGTATGCTAANATCAGAGCAATCTTGTGGTTCANAATGGTTTATGGGAGA
AATATTAGCNCAGTGNNCTTACATGCCTCATTGATGATAACTGGAGCTTAATGTGAA
Sequence 1103
CCCTTAGCGTGGTTCGCGGCCCGAGGTACTTTGTAGCGTCTGCGTGTGTATGGAAAGTTGA
CAAAAAATGGCATGAAAAGATCATGATTGGATTTTCTTTAAACCTGCCCTTCTGTAAAA
AATAGTTTATATATTTTAAATTAGTAGGTATGTGTGGCTTCTTTTTCTAACATTCC

Table 1

CAGCAAATTTTGTGCTAAGACTATCACTGTTAAAGTGAAAATTACAGGGAAAAATGTG
ATGAATATACCGTAACTCAAAATGTGATATTTCTTAAATCACTCTTTTATGCTTTAGG
AACTGGTTGGTCTCCACTTTGATTATTAGTGTAAGAGCCTGAGTATACGTGGATTTCAT
TGTAATAATTAACCTTGTCTTTACTTGGGGCACCAGGGGCCCCCTGGAGGGCTTCCCTA
CTTCCCCACTATGTTAACAGGTAAATNCTGATTTTATGCCTTTAGTTTGACTTATTTT
ANCNAAATATTAGAAGTTATTGCTTTTAAATGTTTAAATGTGGGACTGAAATTTTCATCT
TTTNNTTNAGAAATCTATGAAGTGATTCAAATAACGTGGGCCTAAAGGCAAAGGNGGGG
TATTTTGGNAATTCTGAAATTTGNTTTGGCATCTGGNCCAAAAACCTAAANTANTCCCCGT
GGCCCTTTTTTTTTTTTTT
Sequence 1104
CCCTTTGAGCGGNCGNCCGGGCAGGTCACTATAGGGCTCGAGCGGCCCGCCGGGCAGG
T
ACTTGCAATGTTTTGACATTAAGAGAGAGACTATACATTACAGAGGTTGGGAGCTTCTG
TCTAGCCTGTTGTCCAAAACCTGCTTATAAAATTTAGCAACTAATTTTCACTTTTGACAAC
TATTTTAAATCTAGAAAATAGGTTTATAAAGATTTTCTTAAAGTGTTATCTATCCTTCCA
ATGACTTATTATAAAATTTTGAATGTATTTCTATAGGGTGGAAAAATCTCCTTTAGTCAG
AATTGAACAGTTTTCATGAAGAACATGTTACACCATGTAGAAACATGGGTACCTCGGCCG
NGACCACGCTAAGGG
Sequence 1105
CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCCGAGGNACT
TTTTTTTTTTTTNTTTTTTTTTTATATGGCAATTTTATTTTATTTTGAATTC
TTGGATAAAAACCATTTGAACAATGTTTGGTAAGGNTTATTCTCATAAAACTTCTTTN
AAAATGAAGGTTTTNTATTTTCCACAAAAGTTAAA
Sequence 1106
CCCAATTGGGCCCTTNGATGCTGCTCGAGCGGCGCAGTGTGATGGATTCTGCAGAATTCG
CCCTTAGCGTGGTTCGNNTTNGAGGTACNACCTGCATGGTGTATGCACACAGAGATTG
AGAACCATTGTTCTGAATGCTGCTTCCATTTGACAAAAGTTCGTGATAATTTTGAAGA
GAAGCAAACAATGGCGTCTCTTTTTATGTTCAAGCTTATAATGAAANTCTGTTTGTGAC
TTATTAGGACTTTGAATTATTTCTTTATTAACCCTCTGAGTTTTGNATGATTATTATT
AA
Sequence 1107
GATATCTGCAGNNNTTCGCCCTTTTCGAGCGGTTCGNCCGGGCAGNTTCNTGAGATGTTACA
CTAGTATTTTGA AAAAGTATAAAAATGTGGCCGGNCGTGGTGACACATGCCTGTAATCTC
AGCCACTTGGGGAGGCCAAGGGCANGGAGAATCGCTTGAACCTGGGAGGGCGGAGGTT
G
CAGTGAGCCAAGATGCAGCATTGCACTCCACCTGGGCAACAAGAGTGAAACTCTGTCTCA
AGGGTAAAAAAAAAAAAAAAAAAAAAAAAAGTACTTTTTTTTTTTTTTTTTTTGGG
TCATTAGTTATTAATTTTACNCNAGTTAACACTTGAAAAATGAATGATATTTAAATCAT
TGTCACTTACTGAGAAGCAAGAACCAATGAGTGAGCCCAAAGGAGTCTACTACCCATACC
TATTAAGGGTAGGGAAAGGGTTAAGT
Sequence 1108
CCCTTTGAGCGGNCGTNNNGGCAGNTNCAATGAAATGTCTTTTAAAAAAGTTTGTGT
AATTGTGTATGTAATTCTGACAGTAATTCAAAACACAAAATCACACATTTTCCCTAACTT
CCCATGTTCTGGATCTGGGGACTGCAATATTACAGAAATATGCAAAAATAAGTTTAGTGC
TCAGAGATAAATAATTTTNCCTATTTCATGCATCAATGCGCAAAAATTTCAATTCAAAA
AAGCCAACCACTGCTATATGCAAAATAAATAAACATTTGACAACACTTTTATAATCAAA
CCAACATTATACAAAAAATGTGTGGCACCCTGCACATACNTGTGCATATGTGTATGCAAT
GCCTATTTAAGAAAAAAGGTGTCTTGATGAAAATGATTTTGA AAAATAGTCACTGACACAC
ATTATATACAAAACCTTTTATATAAAAA
Sequence 1109
CCCTTAGCGTGGTTCGCGGCCGAGGTACATTTTGGGCCCTTAAATCCCATCTAAACAATTTG
CTGTTAACGAAACTCAAAAACAGAAATACCTATATTTCTCGCTAAATCCAATTGTTACC
TATGATGAGTAAAGACACTAGATCTGCAGGTCTAGTACAATCTATACATAAAAGGCCTT
CAGATTTGAGGCACAAAAAAGGGCAAAAAAGAAAAAAGAAAAAACCCTTCT
ACACATTTCTTTCTTTATCTGCAATATGAGAAGGAATCCTTTCTAACTCTAATAACATA
TTAACAAGAATTAAGAACACGATTGTCGGGGAACCTCAGATGTTGGCAAAGCTTAAAAATA

Table 1

AAAAACAAGGGCTGGGTGCAGTGGCTCANGCCTATAATCCCACACTTTGGGAGGCCGAN
GCAGGAGGATTGCTTAAGCCCAGGAGTTTGGGATCAGACTGGACAACAAAGTGAGACCCC
TATNCCTATCTTNTNCNAAAATTTAAAAATTAGCTGGGCCAGTGGTGGTGGTGCCTGT
AGCCCCAGCTACTTANGANGCTTAAATGGGGAGGATCCCTTGAGTNCAGGANTTTGAAA
TTGCNTGAGCCTTTGATCAAACTTTACTTTAACCTGGGGTGACCANAACCAANGGG
TTTTAAAAAAGGGAAAAAANANAAAANGGGAGGTTCCCCCTGGGCC
CCCCGGGGGNCGGGGGCCCGGNTTTTTTGA

Sequence 1110

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGGATTACAGGCGTGAGCCACCGCACCCAGCC
AAACTGAATGCTTTAAGAGCACCCAAGTCAACTCTTGAGTGTCTTGCTGCTTATAAT
TTATTCCACCAGATACCCTANATCATCTCTCAAGTTCGAAGTCCACAGATCTCTAGA
GCAGGGGCAGAATGCTCCCAGTCTCTTGCTAAAGCATAGCAAAATCACCTTTGCTGCT
CCAGTTCCTAAGTTCCTCATCTCTGTTGGAGACCACCTCAACCTGGACTTCATTGCC
ATATCAAGATCGGCATTTGGCAAAGCCATTAGCAAGTCTCTAGGAAGTTGCAAACTTT
CCCACATTTCTGCTCTTCTGCAACCTTCAAACTATTCAACCTCTTCTGCTACCT
AAGTTCCAAAGGTACTCCACATTTTCAGGTATGGTTACAGGAAGCAACCCGNTTNTACCG
GTACCTGCCCGGGCGGGCGNTCGAAGGGCGAATTCACACACTGGGCGGGCGTTACTA

Sequence 1111

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTATGTTTTAATTTTTGTAGAGAAGGGC
TCTTGCTATGTTGCCAGGCTGGTCTTGAACCTCGACTCAGGTGAAGTGATCTGGCCA
CCTCAGCCTCCCAAAGTGCTAGAATTACAGGCGTCAGCCACCACGCCAGCCTGNAGCCT
ATTTTTATAAATGAAGTTTTATNGGAACATANCCATGCCTGGNCATTTACATACGTCTAT
GGCTTCGTATGCCATATAGCAACAGAATATATTAACATTTACTACCTGGCCCTTTGCAG
AAAATGTTTGACAGCTCCTGCTGNATAAACATAAAATCTGCCAAAAATGCTGATATTAC
CCCACATGGAGAAACACTGGAACCCCTTTCAGAAATCAGATGCCAATTTAAATATTACT
ATCAAGAGAAATACACTCTGATTTTTTTCTATTCCCTTTCTTTTATTTCTTTTTG
AGACAAGGTCTTGGCTCCGNTGNCCAAGCTGGAATATGATGGNGCCATCATAGCTCACTA
TAACCTCNGATTNCTGGGCTCAAGTGATCCTCTTGGCTTANNCTCCTGAGTAGCTGGGAC
TATNGGCGTGGGCCCGCCCCACCCGGGCTAAATTT

Sequence 1112

GCGCTNGTGTTCATCCCTTACGCNCCGCAGCCNTGNTGATGGTCTAACCAAATCTAG
TNCCTGCTACAATGGGATGGCCTGGGGGATTAATGGAACCTTGCCGGGACCAACTTATGA
TAAGTGGGAAAGCACTTTAGGGCTGATCCCATATANGTGGTGAACACTGCATTTNTGGCC
AAATGGACACGAGGATAANCACCATNTGACACTGGGGGTGGTNCAGTTGGAGCTCTGGA
AGGAAAAGNCTTCTGGGGTGGATCTTAACAATATTAATACCTCNGCCGCACCCGCTAA
GGCGAATTCAGCACACTTGCCGGCCGTTACTAGTGGATCGAGCTCGGTACCAAGCTTGG
C

Sequence 1113

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTCTTTTTCTTTTTTTTTTTTGGAGAC
AGAGTCTCTCTGTCACTCAGGCTGGAGTGCACTGAGTGGCATGATCTCAGCTCACTGCAACC
TCCACCTCCTGGGTTCAAGCAATTTCTCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAG
GCAGGCACCACACACCCGGCTAATTTTGTATTTTAGTAGAAACGGGGTTTCTCCATGT
TGGTCAGTCTGGTTTCAACTCCCAGCGTCAGGTCATCTGCCTGCCTCGGCCTCCCAAAG
TGCTGGGATTACAGGCGTGAGCCACCGCGCCAGCCACTTCTGTATTTTAAAAAAGTGG
TAAGATTTGAGTATTATACTGGGATAGAACTGAAGTTGGGGGCTTAATTTGATCTATCAG
CTTATTGAAAACAAGGACCTTTTAAAAAATGGTTTTGTAGGTTGGAAGAAGTGAAGTT
TTAATTCGTCAATTAANTAGCCNAGTATGTTGATTTTTTTTGGNGAAAGNGTACCTG
CCCCGGGCGGGCNGTTCGAAANGG

Sequence 1114

CCCTTAGCGTGGTCGCGGCCGAGGTACCACANGGACCCAAGGACCTCTAGCTGTGTTTGG
TGAGGCAGGTCTTTGTCAATTTAAGTAATCCTGTGATGTTGATACCAATCTTGAACCTC
ACGACAAAGCACTGTTGCTGAGATACTGTGATTTATTTTCTTAATGGGCAGTTTTTTTA
TATATACGTTCCATTTTCAGACAGGTGGTGCTTTGAGTTGAATTTGCAAGTTCAAGTG
AAACATGGATCTCTTTTTTAACTCCCTTTCTCTNCTAAGGTGCTTAATTTCCAT
GCTTGACATCGTACCTGCCCGGGCGGGCGGNTCGAAGGGCGAA

Table 1

Sequence 1115

GTACAGAAGGGTTTCACCATGTTCAACCACACTGGTCTCAAACCTCCTGGTCTCAAGTGATC
CATCTGCCTCAGCCTCCCAAAGCACTAGGATTACAGACTTGAGCCACCGCACCCCTGTCCC
ATCACCTTTATATTTTCAAGAAGGTGGTGAGGGTGTGTTGGTGCCTGGGGTCTCTAGCTGA
AGAAAAGGGAAATTTTCTATCTCTGGTAATGCTTTATGGATATAAACCTCAGTTAACT
GGAATAGCTATGGAATGTATGCTTCTGGTTAACTAAAAATTAACCAGTAAACACTCTGTA
NTAACCATACAGAAAATACTTCTGCTTTAAAAAAGTACCTGCCCNCGCGGGCCGCTCGA
AAAGGG

Sequence 1116

TNTCTGCANAATTCGCCCTTAGCGTGGTCGCGGCCCGANGTACCATCCCAAGGACACAAG
TTTCCAGGCAGCAGCCTNCAAGAATTTTGTAGAGATGTCCCATCACTTATGGCCTACAC
TGTTACATCTGGACTCTGGATTGCAAGTGTAAGGAAGAAAGTGAAAATGAAAGAGAAAGT
GGAACAAATATTGGCAACAGAGCCCCAGAGGACAGTTGTCCCTTTTCCAACAAGTTAAG
TGGAAATGCTGTTGCCATGGGAGTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 1117

TTTTAAANNCATTTTTTTTNCAGGGGNGAAAAAAGGGGGGGCCANTTTTC
ANCTTGGAATAATGNNTTTTAAAAATNAAAAAANAANTTTTCAAANCNNAAAAAN
NANNACCNCCCTTTTTNAAAAATAAAAAAANNCCCCCGGGGGGCNTNAAAAACCTT
TTTTTTTAAANTTTTTTAAAAAACCCNCCCNCCNCCATTTTTTAAAGNGGTTCTNTTTT
NAAAAAATAAANATTGGTTTTTAAAAAATAATCCCCCCCCNATTTTTTAAAN
CCAATTTTTTTTAAAAAATAACCCGNNTTTTTAAAAAAGNGGGGATTTTTTCCA
NNTTTAAAGGGGGAAAAAAGGGNTTTTTTTGGGNAAAAAAGNCCCCCCCCA
AAATTTTTGAAAAAATAAGGNTCNCCTTCCAGGNNTTTTNAAAAAANAANAANT
TTTCCCCCCCCAAAAAATAAGGGGGGTTTTTTTTTTTTTTTTTNGNAAA
AAAAAATAAGGGGGGGGGCCCCCGGGTTTTTTTTTAAAAAANAANTTTTTT
GGGGGGGGGGTTTTTTTTTTTTTNNCCCC

Sequence 1118

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTAAAGAA
AAGTTGGCCCAGCCCCAGGGAATAAATTTTACTGTCTAAACAACCACAGACCAAGGGCC
AAATCTGGCCCTCTGACTGTATAAATTAAGTTTTACTGGAATAAAACCAGGTCCATTGAT
TTATCCATTGTCTACATACNCTTTTAGGCTCGATGGCNCCTACTGTGCTTACAAAAANANG
TTATCTAGACAAAAAGCCTAAAAATATTACCGTTTGCTCTTTATNGAAAAAGTTTGCCATT
CCCTANTCTAAGGGTTANATTCTGACTTATCATGTTATCCTACCCCCCCCCGNGTACCTG
CCCGGGCGGCCGTTTNAAGGG

Sequence 1119

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTAC
AATATGGAAAGGTAAGATCCATACCCAAAGTTAGGTAAGTGTGAGTTGCCCATGTAAA
TAGTTTAAACACTGTAGAAGTATTANAGAGATCCTTAGGGAATGATGCAAGTGGCATTTG
AGCTATTCAATTANAGAAAAAGTTTAAAAACATGCNGTCTAAAANGGAAGAGATNGAGGC
CATNGAAAAATNTTCTTAAGATTAACAGCTGGTTATCCCACTGGCTAAGTTCCGATGG
TGNGGCANAAAGCACCGTNTTGGCTAAACAAAGNGGGAATGGCGTTTAAAAATAGGAAA
GGCAAGGCTAAANATTTTGAACCTAATCCTACTTGGGTGCAGGGAATAACATAGCTTAT
TCTTCATGAAAGNTTTTTNTTCACTACCTAAACAGNTTATACATTTGCTTTTATCTG
GAGGGATGAAAAACCAANTTTTTTTTTTGGCCTTAAATCCTTAAATTGAACTAACT
TTTNTNTTNGGGGTTGCCAAAAA

Sequence 1120

CCCTTAGCGTGGTCGCGGCCCGAGGTACACACATCTTTTTGAGATCCTACCTTCAGTTCT
TTTGAGTATATAGCCAGAAGTGGTATTACTAAATCTTACGATATTTCTATTTTAATTTA
TTGAGGAACCACTGTAGTTTTTTCATAGCAGCTGCACCATTTTACGTTCTCACCAAGAGTG
CACAAGGGTCCGAGGTTCCACATCCTCCCAACACTTGTTATTTTCTGCTTTTTTTAG
ATTGCAGCCATCATAGTGGGTGTGAGGTGACATTTTATTGNGGTTTTGATTTGCATTTCC
CTAATGAGGAGTGATGCTGAGCATCTTTTCATATGCTTACTGGTCAATTTGTATGTTGTCT
TTGAAAAATGTCTATTCAAGTCCTTTGACTATTTTAAAAATTGGGTTATTAGAAGTTAT
CGTTGGTGNTGACTTGAGGAGTTCCTTTCTATATTCTGGATATTAATCCCCCTATCAGA
TATATGATTTGCAAAATCTTCTCTTAATCCATAAGGGTACCTTTTTCACCTTTTGTA
TGGGCTCTTTGATGNATAGAAAGNTTTTANGNTTGAANANCTAAATTATCNGGTTTTA

Table 1

CTTTTGGGGGGCTGGG

Sequence 1121

CCCTTAGCGTGGTCGCGTTCGAGGTACTTTNTTTTTTTTTTTTTTTTAAATTTAGTAG
AGACGGGGTTTCACCGTGGTAGCCAGGATGGTCTTGATCTCCTGACCTCGTGATCCACCC
ACCTTGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGTGCCGGGGCTGAAAAAT
AACCTTTAGATATCTACAGCTTTAACTGTGTGCAGTCATGAAAAGCAGACATTAGAAG
TCATTGGCATTAAATAAATTGCAGTAAATTATACAGTAAATACATTACAATCATTAAATA
ATAGGCTTTAATGAGAAGAATTTAATAAATAATCATTAAAAAGACAGCAGAATTTTATTC
TGGTCTCAATATGGTNGCTGCTCTTCTTATCAAATCTATAATAAACTATNTGACTATNA
TATAGATTTACAGGAGCTAAAAAAGCCTTATATTTTCAAATTAAGAACNATTTTAATT
TTGCNAAATCAATNAGCATTACTGAAGTTTAAGGAAATTTTGAATAAAATATATGGCAN
TTANATNCCGCCTAAAAAGAAATGNAATCTTAANGATTNCTTTTGGCTCAGGGGCNTAAA
ATTCCA

Sequence 1122

NGCCCTTCGGNTTTCGGGGCAGGTACGCGGGGGCGGCTCGTTCAAGATGGCGGAGCTCGA
CCAGTTGCCTGACGAGAGCTCTTCAGCAAAAGCCCTTGTCAGTTTAAAGAAGGAAGCTT
ATCTAACACGTGGAATGAAAAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 1123

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGGCCGCCGGGCAGGTAC
CTTTATCCCTCAAAGGACCTTCTTGGGTTTTGAATGGAAGCCTTTATTCGGTTAAGA
TGTTTTCTTTATTTTGCCACTTCCATCTTTTTTGTGGCCCTCGATCCTATTTTCCCTG
ACTCCATGCTTGGTTGGCCCTTATAAACTTGTGCCCAAAAGATTGTGGATTAGACTTTT
CGAGGACTTACCTGTCTAGGGGAGTAGGCAAGCACTTCACTAGGGAGGGGGTGGGGGAA
AGGAATGACACATGACATACATGGCATACACATTAAGCAGTTGATCATATGTCTGAATGG
GTTCCAGTTTCTTGGGAATGTTGGGTCCCCTTGTTCAGGCTTGCATATTTTAACTAAAA
ATTTCAAGTCTATTGTTTTAGTAAGTTCATTTATANNCTCCATAACAAGTTAGAAGGA
TGATCTGCTACCATTTATTCCTATAATTTAAGAAAGNTGGGGCTTGACATTATACTCA
TTAGTGAGAGTANATGCCAAAAAAGTGGAGGGG

Sequence 1124

CCCTTTCGANCGGCCGCCCGGGCAGGACGCGGGTAGGGCAACTTGGATGTATGCTTAGGG
TTCGCAAAAAGTAAACAAAAATACAAGGGAATAATTATTGACAATGAACTGCTTTGGT
AGTGATTTGTGATTTTGTCTTTCTTGATTAGTAACCAACAGCACAGCCACCAAGAAATT
ATGCACATGTGGGACCACGTCAAGCTGAAGCGTTTGTGCCCAACAAAGGAAACAATAAG
AAAAATAAAAAGGCACACTAAAAATTACAAGTTTGGGATAAGGGATTATTTTGAAGGT
ACCTCGGCCGCGACCACGCTAAGGG

Sequence 1125

CCCTTAGCGTGGTCGCGGCCCGGAGGTACAGAAAAAGACACATTTAGATAAACTGAAGCAG
ATTAAAGTGACTTTATAAGACAACATCTTTGTTTTATGTTTAAATTTCAAGTATGGTTAA
GCACTAATTTAATTCAGTGCTTTCTGCTTATTCTGTTCTAGTAAGTCTTACAGAAACAA
GTGTAGTCAGTAGCCAACATACATCCATGTAGCCTATATAGCTTACTAGGAGGGCTT
AAGTTTTTTAAAGAGATGAAAAATAAGAGAAGGTCTAGTATTTTCTCCACATTCCA
ACAGATCATTTTATGTGCCCCCTTTGGGTGAGCACATTCCATGTTGTAGACCATTGATCA
TAGTAGTCAGAGCATGGAGCTCTGGAGTTCAGAAAAANTATTTTATTATTGGTGGTATGA
CAAAAAATAATCCATGAAAAAAAAAAAAAAAAAAGTACCTGCCCCGGGCGGCCGCTCGA
AA

Sequence 1126

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTTACTGTTCTTTTAAACCTGGAGAAGCCTC
TATGGCTTATTCCCTTAGAAGCAACAAATGAAATGATGTATAAAGCATCAAGTCAAAGAT
ACAGAGAACTGGACACATCCACTAATTGTTATGACAATCAAAGAAGTCATCTCCGTAAT
ACCTAAGGGTTGTCTAAGGCTATAAAGGTCAATTTGAAAGCCAGTTAGGGATCCACCCGT
GTTTCATAAAAGTGCTTACACTCATGTTTGGCTTTCAAGAAGTGATATGCCTACTAAAG
CTGTTATTTTGAAGTATCCCGCGTACCTCGGGCGGCGACACGCTAAGGGCGAATTCAG
CACACTGGCGGNCG

Sequence 1127

CCCTTTCGAGCGGCCCGCNCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTGGCCT
CCAATTCATTTTAAATTTGTTTCTTTGTTTGTCTTTCCTCAAATATACAGTCCATCACC

Table 1

TTGGCTCAGTGCATGTCACCAAAATTCTCCAGGGATTTCATAGTCTCGGTGGTGTGGCT
GGCCCAGGACTATCCATGCAGGGAGGCCTGCACCTNTGACAGTCGGCTGCANCTGGGGT
GCCCATCTTNTGTGCTCTGTGGTACTNCTACACACATAAAATTCAGGAAATGACTAGATGA
GCCTGAGTTGGCTTTANTATTAATGTGCAAATACAGTTTTCTATACCAACAAACCC

Sequence 1128

CCCTTCNNTNNTGCCGCCCGGGCAGGTACTATCGATTGGGTGCGGGGTGATCTATTATC
ATTGAGTAGGGAAACTTACTAGGNTAAATAGAAAGTATATANAATGTATTTGGTTATAGA
TATGTGAAGGAAAAGGCATANTTATATGGTCATCCATGCTGGGGAATATTTNGNAGNTNT
NTTTTGTGAGAGAAATNGNNCATNTTGGATCAATAGNATTAGACAAATATCTTGNGCAT
CAAGAGACCTGGAAACATG

Sequence 1129

GATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAGTGGCGCAATCTT
GGCTAGTGTAATTCAGTCTTTTGAATAAATGAAAAAATAAATTGTATGTTATTTTTATA
CAGAAAAAAGGCCCTTAATATCATAAGGTTTTTTTATAGCCCTCAAAACTGATTTTTAAA
TGGAGGTAGGCAACTGAGAAAAAAGCATTTAAATTAGTTTTACCCCCAAAGCCCCCAA
AATTTTGCTTACAAAATTAGGGTACCTCGGCCGACCACGCTAAGGG

Sequence 1130

CCCTTCGAGCGGCCCGGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTCTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAGANAACTTTTTTTTTTTTATN
GNANNNNAATTTTTNTNCNGGGGGGNTTAAAAATTTTTTTTTNNNGNTTTCNNNTA
NTNNATTTTAANGNNNGGGNNNTNTTNNNCCCTTTGNTNTNGGCNAAAAAAAAAAAAAT
TTTTTTNTTAAAAACCNTAAANGGCTTCCCTNAANANAAAAAANNATNTNTTTTTTAA
AAAAATAAGGNAAAAAANAANTTTTT

Sequence 1131

CCCTTCGAGCGGCCCGGCCCGGGCAGGTACCCAGAGGGAGAGGCTAGCAGTATTTTTAAA
TTGGTTTTCTAAATTTTTATAGCTTGATGGTAGATAACACATTTGCTTCATTGAAGTAAT
CTGAAAAACCAATCCTCAAAAGACCTCTCAATTAGAATTCTTAAATGACAAATGTTTTCTT
TATCATATATTTGAGAGATTGATTTAAAGAAAAATAATGCTTGACTATCTGAAATAATAT
TTTAACCTTATCATAAATCTCTGCCTGGTAGAACAGCTGACTGTGGAAGGGTAAAATGC
AGAGAACCAGTCATTGGGATCTCCCTTCTCTACTTTGTACTGAAATCTTGAACCTGTAGA
ACATTACTTATCACTGTGTCTTTCTAATGGGGAAAAATAATAAAACACTTGCAGAGTA
TTTTTTAAAGTTTTTAGCTTTAAAAAAAACCC

Sequence 1132

GATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATCACATGGTGAAA
GCAGGAGCAAGAGGGATAGAGGTGCCATACACTTTTAAACAATCCGATCTCACAAGAGCT
CACTCACTATTGCAAAGATAACTCCAAGCCGTGAGTGATTGGCTCCCATGACCTGAACAC
CTCCACCAGGTCTACCTTCAGCATTGGGGGTGACAAAGCAACATGAGATTTGGGCAGG
GATAAATATCCAAATTATCATCTGCTCCTGGCCTCTCCCAAATCTCATGTCTTCTCA
CATTGCAAAATATAATTATGCCTTCCTAACAGTCCCCAAAAGTCTTAACTCATTCCGACT
TAACTCAAAAATTCAAAGTTGGCCAGATGCAGTGGCTCACACCTATAATCCAGCATT
TGG

Sequence 1133

GATATCTGCAGAATTCGCCCTTAGCGTGGTGCAGGCCCGAGGTACTGAACTACAGGTGT
GAGCCACCATGCCTGGCTTAAACATTTGTTTTTAATTAGCCAGGCTTGGTGGCACACATC
TGTAAGTCCACCTACTCAGGAAGCTGAGGTGAGAGGATCACTTGAGCCCAGAGTTCAA
GGGGCAGTGATCACTCCATTGCACTCCAGCCTGGGTAACAGAGTGAGACCCTGTCTCGCC
AAAAAGAAAGAGGTTAAGGAGGAGAAGACTCTAACCAAAAGAAGTAAGTATATTGA
AAATTATTTGATAGCAATCGCAATTATTTGGATAACTATTTTTACATATTGTAAGCCAA
CCAAATAGGGTCTTAAAAAGTTTCAAGACCAATGATTCATGTTCTCTACTTCAGCCTAA
AAAAAAGTTAAAGAATTCTTCAATTACCAAAAGAACAGTTATCTATANTTACAAAAAGA
CTTGAACCTTTTACCTGAATGCATCTTTGTTACAAAACCTTTAAAGGAGGTAGGGGG
GAACCTCATTGATTCAATGCTGNCTGGTTTTTTAAACCCA

Sequence 1134

AGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGGCCCGGGCAGGTACTTT
NTTTTTTTTTTTTTTTTTNANGAGCCTCTGGTTACGTTNNCTTGATATTTACTTTCTC
ATCCTTTCTCTTTCTTACCTTCCTCTTTGACTCCTTATCTTTCTATGCCAACCTCTCT

Table 1

AAAAAGTCAGTATGTAATATAGTTGCTCTTTTATTTAAAAAATTTTAAGATTGATATTTG
CTTACTATCATGTTACGAGGCTTTATTTATATGTGATTACAAATATATTTGTAACTAC
TAGCAAATATTTTATGTAATAACTTCGCTATTTTATTTAAATCCTGTTTTTAAATCTG
AAATGTCATTTTAAGTATAGGAGACAGGTGAAATTGTTCAAGGTTACTACTAAACCAGG
ATAAGGGAAGCTTAGATTCTTGGNCTTTTTTCAAAAAAGAAAAATTTTA

Sequence 1135

CATGCTCGAGCGGCCCGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTC
GCGGCCCGAGGTACAGAGGAAATGGGACTTTGCAATTATTTTTCTAAGTGGTCTGAAC
TTGGTCTCACTACCCACATCACCTGGAATGGTTACCAGGCCTCAAAGGACTGCCCCACGG
GCTAAACAGCTGATCCGCTCTCTGAAGCCAGACAGTCTTATCTGGGAGGTCTTTACAGA
TGCCACTGTTGAGGGCCCCGAAGCTGAANAAAAGTGAATCCATCCTCAAGTAGTCTTTATC
TTCCTTTTGAACCAAGCCTTGCTGTTCTNGGGCCGCATTTGTGAATTTGGNCTGGAAGTN
NNGGTTCTTTAAAAANAAAGNGATGGGTCTTTTAAAGGTAATTGAAATAAGGTGTTTG
ATGGTGTTAATTGGGTGATGATGTACCTNGNGCNGNCTGGATAAAAGC

Sequence 1136

CCCTTTGAGCGGCCCGCCCGGGCAGGTACAGATGAAGATGTGTTAAATATCTCAGCAGA
GGAGTGTATTAGATAAATGGAATTATGATATATGATATACAACTTTTTTCTATTTAA
AAATATATTAATGGATCAACTTTAAATTTGTTAGTTGCCAGTGATCTTTTTGGAAAAACA
AAAATGGGGCATTGTGTTGATTTATTTATTTCCGCTCTAATTAGTTACCTCAGTTTGAT
TGAAGCCAGTGAAGTTGTGCTTTTCTCTACTTCTACTTCTCTCCCCGACCTTTTTCTG
CCAGTGTAGGGTGATTCTTAAATTCAGACAGGGGGAGGATTCTTTCACATATNACTCA
GCTACCTCCCAATCTGGGGGAGTTTTCTTACAACCTTGATACCAGATCCATTAATTTTAC
ATTCCTGAATAAAGGCCTAGTA

Sequence 1137

CCCTTTGAGCGGCCCGCCCGGGCAGGTACAACCTTGGCTCACCGCAACCTCCGCTCCCG
GGTTGAAGCGATTCTCCTGTCTCAGCCTCCCCAGTAGCTGGGATTACAGGTGTGCACCAC
CACGTCCTGCTAATTTTGTGTTTTAGTAGAGATGGAGTTCACCATGTTGGCAAGACTG
GTCTTGAACCTCTGACCTCAAGTGATCCATCCGCTTGGCCTCTCAAAGTGCTGGGATTA
CAGGCATGAGCCACCGCACCTGGCCCTGTCAGGGTTTTCTTAACATTAGCAACTGCATTT
TGATTCTGACAACTGTCACAACATTTGGGCCAGGTAACCTTTGGTGGCTTGTCGCCCTGT
AAGATTTTAGCAGCATCCCCGGCTTCTACCCACTAGATGTCAATAACATCC

Sequence 1138

CCCTTAGCGTGGTCGCGGCCCGAGGTACAAAACAGAACAAAGTCTCAGTTTTCAGTGCAAC
ATTTCAAAAAATATATATGCTGCAATCTAATAATTAAGGAATTTTACCTATTATGAAA
CATATTACATTTTTTAAGTTAGATAATCANGTTTCAAAGGAGTATTCAGGTATTTTAAAC
TTTGTTTTTAAATGGCTGCATCAGAAAAAATGTCTATTTTTTTTTTATTAATAATTTCA
TCACTTGTTAAACATATTTTTGATCTGAGTTTGGTAAAAGTATTATTTTACCTGCTGTT
GCCCTGCCCGGGCGGCCGCTCAAGGG

Sequence 1139

CCCTTAGCGTGGTCGCGGCCCGAGGTACTATCTCGAATGAAGTTAAAAACAAATTAGAGGG
AAAAGGTCAGGTTAGCATGTTTTAGAATATTGGTAACTATAATTATGAGGACATTATA
TAATCAAAAGATTAATATTTTAAGCACTAAGTTATAAAGGGTTTACACCCATGAATAAAA
AGATTACCATCACTTACTATGAACCACCATCCATGAATCCATGTAGCTGAACACTCCTA
ATGAAAAGTTTAATTATCCTTCAACCTGTAGTTGAAGAACTCAGTTTATGTTTATTGACA
GATTTCCATTACAGACCCACTATATTGATGTTACTTTCTTTGACACTATATTTTATATAG
GATATATTAATAATTGAAAACCTAATGCTGTTTGAAGGCTATTAATACTATTAATTTT
TGAAAGCTTTGAGTTTTCTGAAAAGGCTTTTAAAGATCAAAATTTCTGAAACACTCCACAC
ATTCTTCCTCACCCACATTTA

Sequence 1140

CCCTTAGCGTGGTCGCGGCCCGAGGTACCAGATTATGGACTCTGCTTCTGGTGTGGGTAGT
AGGTGGAGGGTAGCCAGGAGGGCTTGGGGTGGGTGTCATCACCTCACAATTTTGAAGTGGG
TTTTATTTTGCAGATTCATGCATTGATCACAGGCCCATTTGACACTCCTTATGAAGGGGG
TTTCTTCTGTTCTGTTTCTGGTGTCCGCCCGACTATCCCATCCACCCACCTCGGGTCAA
ACTGATGACAACGGGCAATAACACAGTGAGGTTTAAACCCCAACTTCTACCGCAATGGGAA
AGTCTGCTTGAGTATTCTAGGGTAAGAGGAGACTTTTAAAGTAGCCAAGTCCGGTTGTTAA
GCAGATAATTACTCTAGGTCAGCCTTTATCAACCGGAGTCCCTCATCTGAACTACAGAAC

Table 1

ACAGAAAATGATTGAGTGACTCTTCTCAAATCTCCTTCAGGATGGTATGTGACTAGTATC
ATTCTAGATGCANAGGGGGGAGAAGTTAATTTATTACAGTGGTAACCTTTAGAAGTGGTCN
CTTAAGANTGTGGGCCCTGAACCATCTGGGGAACCTGTAGCCCAGCCNGTTTCTGGGGCC
CTTATCTTAGACCTACAAAAAGAACTTTGGGGGTTGGGG

Sequence 1141

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTNTTTTTTTTTTACGGGAGTNTGGCTC
TCTTGGCCAGNATGGAGTGAAGTGGCAGATCTCGGCTTACTGAACCTCCACCTCCTAGG
TTCAAGCAATTTCTCCTGCCTNAGNCTNCTGAGNAGTGGGGATTACAGGTGCCCGCCACCA
TGCTGGCTAATTTTTGTGTNTATAGTANAGACGGGGNTTACCATGTTGGCCAAGGCTG
GTCTTGAACCTCTGACCTNANATGATCCACCTGCCCTGACCTCCNACAGTGTGGGATTA
CAGGCATAGCCACCGAGCCNGACNAGGGCNNTTTANCAAGGAAAACGTGTGGAATGAAT
GGCTGTTGGTGTGCANANAANTNATACTGTGTACATGTTGTGAAACCTGAANTTTNTTT
GNTNNGATTTNGTATGANGAATGANNNNCGGACNCAANCAACCCNTAAGGGGNGAAATTNC
AGACANANTGGACGGGCGNGTTACNTATNGGGATCENNATNTTNGGTAACAAAANNTNAGG
CTGNANTACNTGGTGNAANGGTGATGTTACATTGTNTGNAAAGTTGGTAATCNCANTTCA
NNATTNTANANANCATACTANNNNNGNGGCTTGTGTTTTGNNANAGGAGGGGGGGGGGCC
AAACCCCCCNCCCCNCCCCCNNTTNNCCCCCCCC

Sequence 1142

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTATTAGCAACTGTGATGATGATTGTGAA
TCTTATTTTCATATCTTGGGTTTTCTTACAGTGAAATATTTGTTGTGTTATTTCTTTGT
AAAAATAAACCATGTTTGCATCTTGGTCTTCTTCCATTTGGATTCAAAAGTTNTATAGT
GATTCCTCCTAGTAAAATTGCATTTTCTCCCTAGGAGTACCTCGGCCGCGACCACGCTAA
GGG

Sequence 1143

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCTACACACATATATGCATATATGGTATAATG
TATCAATATTTACAGAGACCATAGTAAACACAGCACAAAACAGGCATTAAGAGATGCAT
GGGAAATAGCATTAAATGGTAAATATGGTAAAGATTGTTTTATGGTTTTTGGGTTTTTT
TTTTTAATGATCATATTTTAAATGTTACTTTAAAATAGATTAGTGAATGTGATTCAAT
T

Sequence 1144

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTATAAGTAGNTGGTTTGTATGANATGGTTAA
AAAGGCCAAAGATAAAAGGTTTTCTTTTTTTTCCCTTTTTTGTCTATGAAGTTGCTGTTTATT
TTTTTNGGCCTGTTTGATGTATGTGTGAAACAATGTTGCCAACAATAAACAGGAATTTTA
TTTTGCTG

Sequence 1145

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGTGTTTGCTTAAACAAAGTGACTGTTTGGCT
TATAAACACATTGAATGCGCTTTATTGCCATGGGATATGGGTGTATATCCTTCCAAAA
AATTAACGAAATAAAGTAAAAAAAAAAAAAAAAAAGTACCTGCCCGGGCGGCCGNT
CGAAAGGG

Sequence 1146

CCCTTAGCGTGGTCGCGGCCGAGGTACCAAGGTGAAATTTGAATGTGTGAACGCATTGTT
CTGTGGAGTTCTTTTCAAAGAGATTTCAAAGCCACAAGTTAGATAAGGCCAAGAAGTAAG
GCCAGAGTGAGATCGAAGTAGGCCTTTCTTTTAAAAAATAATAGCTTTTATTTTATGTCA
GTATCTTCTTTACAAATCTAACCTTCCCTTTTACGCTTTTGAAGATAGCTAAAATT
CAGTGTGTTCTTATTATAAAGGATTGGGCTAATAGTTAAGCATTTCAAAACATTTC
GTTTCGTTAATCAGAAGCTGCAAGTGGGTTTGTGTTTATAGCCAGTTTGTCTTTAAATTTG
GCCATGTGGGCTTTAAGTTCAACGTATTTGTGTTCTCTTTATNGTTACTCTCTCCAGAAG
TATTACCCAAACTGTGAAGTTGTGGTTATGGGGATGGCAAACATTCTATTTCGGAGG
AGTTTTCAAGTCTNTGCGGTTGCTGTGCACTCAGAATGCCANATCCCGGGAAAGTAAGTC
CTT

Sequence 1147

AGCGGCCGCCCGGGCAGGTACATCTGTCAAAAATCATATTTATGTGAGATGTGTCAATAC
TANACTTGTGTNATTNATGCTACTTAGAANGANGATAAAAAATATCCTGTTTGGCTCCAA
AAAAAGAAAAAGTCAGCCCTCCTGCACGAGTNGGAGCTGCAACCTTTTANAAATGATAA
TCACAAACCCCTNAGACCCANAGTAAATAAAAAAAAAAGATATGTNACATTAGGCATTGA
TGGAAAAGGACTAGATCCTAGTATAAGCATCCTAATAAAAGGAGAGGTTNAAAGACGCTC

Table 1

TCCAGAACCAGNNTTNCAGACTTTNTATGATAANCTAAATGTGCCANTCCTCGGCCNNTG
ACCACNCTAAGGGG

Sequence 1148

CCCTTAGCGGCCCGCCCGGGCAGGTACTATTGAACCAACAGGATATCTTTTTTATTATTG
CATGAGTTAATCCTACAAACAAAATTAATACCTCTTTTATAAAACATCTTTTCCAGTGT
TCTAATTGATGGAGATGCGGATCACTCATCTATAAAAAATGACTTACAGCTTCAGCTTAA
TCAGTTGCTATAATGTGAAACAGGAATGTGTATTTTTTTCAACTAGGTAAAAGGTGCAT
ATAATTTGAATTGTTAAATGTTTTATTGAACAAAGTAAACCTTTTAGTAATTTTTAA
ATTACTGGTCTTAGGTGTTTGAAACAAGGTAAAAGTATACATTCCAGTTTTGCCCAAAAG
TCACTTAAATATCTACAAATTATTAATCTGTGTGTGGTAAACACCATTATTGCTCCAAT
TTCTGGAAAGAGTCTATTTTCAAAGTTTAAAAAGAGGAAAAACAGCAAAGTGGCTAAC
TTTGCAAGTGGAAAGAAAAGTGCCTTCATGGGTACACTTTCATATTTTTATGCAGCAT
TAAGTTATCTACCGTTATGGGGGAACCTGGGGTTT

Sequence 1149

CCCTTAGCGTGGTCGCGGCCGAGGTACCATATTGTTCTTNTTACANNTNTTACTGTCTCA
GNTATAATTTTGAATGGCGGTTTCNCAACTNGCCTGNCCNNACCCNNNTGTNTCATAAN
TAATCTACGTAAACAAGTTAAAATAGGTAAATGNAATGTGATNAATACTTGNGGACAACC
TGGTCATAATTTANAATCTCAAGGCTATATTAATAATACATATTTTATTATTTGGGTAT
TTTCCAAATANAATGTATTGGAGGAAAACCTTTCCANAAAAAGNGTAACCTTTTTAAN
AAGGNGAATNANNTTTGTCTAATTCAAAAGCTTATTTAAAGGTTATGTGTAACACCGG
TNAAGAACCNTNAAATAAAGAAAGATNTAANATAAACGTTACCAAAAATAAAGTG

Sequence 1150

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTGTTTTAA
CAAAAAATAAGNAGNAGAAGCTGGGCACAGTGGCTCATGCCTGTAATCCAGCACTTTGG
GAGGCCAACTCAGGAGGATTGCTTTAGGCGAGGAGTTGAANACCAGCCTGGGCAACAAAA
AACAAAAAATTACCCGGGCATGGTGATGTGTGCCTGTAGTCCCAGCTACTTGACAGGCT
GANATGGGAGGATCCCTTGAGCCCTGGAGTTCAAGGTTGCAGTGAGCCATGATCTCCCCA
TTGCACTTCCANCCTGNATGCCAGAGCAAGACACAGTNTCAAANAAAAAGAAAAACNCA
ANAGAGGTGGAAGGGCTCANCAAGTGCTTCCACATTCGCATTCCCTTAAATCGGGAAT
GCTCTAAAGCTAGAGGACTTTTA

Sequence 1151

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGGGGTTTTTTTT
TTTTTTTTTTGAGACGGAATCTTGCTCTGTCAACCAGGCTGGAGTGCAATGGTGCGGTCT
CAGCTGACTGCAACCTCCGCCTCCTGGGTTCGAGATTCTCCTGCCTCANCCTCCCAAGTA
GCTGGGACTACAGGCACCCACCACACCTGGCTAATTTTTTTGTATTTTTAGTAAAGA
CGGGGTTTCACTATGTTGGCCAGGCTGGTNTCGAACTCCTGACCTCGTGATCCACCCACC
TTGGCCTCCCAATCTTATTTGCTTTACAAGTCTGCTTCAGGGTTACCTTCCCTGACCAC
TGCTGCCTCCCTCCCAACATTTCCAAGGGACTGTCATTGCCTTAAGTTATTTTTCTGTT
NAGNTTTTTTTTTGGCGTTTTNTTTTTTTTNAACAGCGTATTAATCTNTCGCCAAAG
GCTTGGAATCANTNGCCCAAATTAAGCNTTGTGNAGCCTTGAACCTTCTGGGCTTA
AGCAAATTCCTNTTACCTTNAGNAAANTNGNGACTACNNGGCCCATGCCACCACGCTTG
GGCCTTTAAATTAATTTNTGGGTAAACAAAAAAACTTAAGCCCTANGNAAANTTTG
GTTTAAAAATNACAAGAGGGACTTNNATNTTNCATTNATACAAATGGAAAAANATTAANTT
TCNTCNTANNANGANAAAGGAAAAAAN

Sequence 1152

CCCTATCGAGCGGCCCGCCCGGGCAGGTACAAGCAAGACTTTCCTTTAATATTGATAAAGA
ATTGAGTATCATGTATGCATTCCCTTTTATGATATACAATTAATTGAAGTTATTTCCCT
TGATGCAACCATCCACATTTTCTTCTGACCTTTTCTCAAGTCTTACAACACTTTTA
ATGACTGCATTTTGGAGGTGGTCCCAGGAGAACAGATGTTTGCCTTATAATGGNGTTTT
CCATTTTTATCTTTGATTGNGCAAGGGGGTGGAAAGTATTATTTAGTCATTATATGGATT
CCTCTAAAAATTGTTCAATANAATATATATTCATTTATCACTTTACTTATTGTTTATT
ATTGCCTTAGAGTATACCCAAACACNGGAGGATTCAATAATGATCAAGACAGGTCTAATT
TCTGTCCCAAANGAGCTTAAATATGNGAATTAGAAAAGGAATTTT

Sequence 1153

CCCTTAGCGTGGTCGCGGCCGAGGTACTACATAGAAAGGGCTTGGAAGTCTGATTCAGGA
AAGGAAATCAGGAAAGAACAAGGAAATGAAGGAAGAATAAAAAAGAAGAGAAGTCATTG

Table 1

AAAAAGTATGAAAAATATGAAACAGATAACAAGAAAGTAGAGGAGATTCCAAAAATAC
AACCCAGGTTTTCTGCCCTCATTCTATAGAGTCTTGAGAATTGTAGGGTGTAAGAAATAA
AGAATCAAGTCTGAGAGATCCCTTTTGCTTCTTCTGTCTCACTGATCTGGAACCCAGG
TTGCCAGCTGGCTATTCACAGGCCCGCGTACCTGCCCGGGCGGCCGCTCGAAAGGG
Sequence 1154
CCCTTAGCGTGGTCGCGGCCGAGGTACTGCAACTATCACTTGTCAATTTGTCTAGGAAGGT
AAAATACAGGAAGTTCCCAACTTAAAAATGGGCTTGACGTAGCAGTCATTTGTAAGTCAC
TTGCTTGGAATTTAGAATGCTTCTCCCTCTGCAGAGACAGCTTCCATATGGTGATTAGT
ATCCAGTCAGCCACAGAAGTTATTCAGTCTGTTGCTATAGATGAAATTTATCCTTATTTT
TACTTCCCTTCGAATAGACCACCTACTGTTTCTTCTGAGTGTGGTCTTTTTCTTTTCTC
CTATTCCCTCCTCAATCCTCTTTTTTTTTTTTTTTTTTCTGAGTGTGGTCTTTTCTTTTCTC
TAATTTCTTCTTGGCTCAAAATACTTCAAGTTCTATTGNGGTAGCCTAGATTTAGGGACT
AGTTTGG
Sequence 1155
CCCTTAGCGTGGTCGCGGCCGAGGTACCTGCAGGAACAATATTCCTGTAGCCATGGAAGA
GGGCCAAGGCTCAGTCACTCCTTGGATGGCCTCCTAAATCTCCCGTGGCAACAGGTCCA
GGAGAGGCCCATGGAGCAGTCTTCCATGGAGTAAGAAGGAAGGGAGCATGTACTTGGC
CTTACTTTGTAGCCTTCATCAGGGTTTGTGAAGATGGCGGTATATAGGCTGAGCAAGAG
GTGGTGAGGTTGATCGGGGTTTATCGATTACAGAACAGGCTCCTCTAGAGGGATATGAAG
CCCCGCGTCTGCCCGGGCGGCCGCTCGAAGGGCGA
Sequence 1156
CCCTTTGAGCGGCCGCCCGGGCAGGTACGCGGGCATTTTTGTATTGCTATTAAGAAATA
CCTGAGACTGAGTAATTTACAAAGAGTAGAGATTTAAATGGTCAAGGTTCTGCGGGCTTT
ACAGGAAGCATGGTGCCAGCATCTGCTCAGTTTCTGGAGAGGCCTCAGGAAGCTCTTAAT
CATGGCAGAAGATGAAGGGGGAGCAAATTAATCACATGGTGAGAGCAGGAACAAGAGAGA
GAAAGGAGATGTACATATACATTATGTAATTAAGCGTGCATGTGTATGATTAAAAA
TAATGGTATATAAACAATACAATATATACAATAAAACACCTAAACGCANAGGCTGCTTG
TTATCCACAATANTAATACCAATAG
Sequence 1157
CCCTTAGCGTGGTCGCGGCCCGAGGTACAGGCTCCTGCCTTTAAGAGCACTGTTTTGCTT
TTGGGGCAGAAAGCATGGACTTTTAAAGGGGGACTTGGCATGAATGCATTAGAGGAGGG
AGTGAGCAGTTGGGGGTCTGCGTGACTCGCTTTCGTGCTTAATCTACTGGTGGTCCAGCT
GGCTGCATCACAAGCAGAGCTAGGTTGTATAGTGGCCTTTGTCTCAAGACACTCTCCAGG
TGGGAGAGCCTTCCATCAGGGACATACTTTAGGTTGCAAATTGACTGTTGTCTCTTGAGG
CAATCTCCTTGTGGGAGAGAGTTTCTGCCCTGGAGCTTCAAAGTAAGCACGTAGTTAGA
TAAGCTTCCAGTGTANNTGAGTGTCTGGTGAAAGGGAAGGTAAAGGTTATGATTGCATTT
TCTGAAAGAGCTAAGGTANGGAAATGGGGAACATAAAAAAAAAAAAAAAAAAAGTC
Sequence 1158
GAGAAGGCTTCATTAANGGAATCTCACTGNGAATATCTCCTGAGAGATGGACAATGAAAT
ATCAGNNGGNGGATATGNGTGATAAGCTGATTTCAATATTGAAGTATNGAAATAAAATAT
TCTTTACACCTGAAAAAAAAAAAAAAAAAAGNACCTGCCCGGGCGGCCGNCNGAAAG
GGCGAATNCCAGCACACNGGCGGCCGNACNAGNGGANCCGAGCTCGGNACCAAGCNGN
G
CGGAANCANGGCATAGCNGNCTGGGGGAAAANGGNAN
Sequence 1159
CCCTTTGAGCGGCCGCCCGGGCAGGTACACCAGCCTGGCGACAAGAGCGAAACTCCATC
ACACACACAAAAAATTAATTAATAAATAAACATTGGTCAAAAAATAAAGCTGTATC
AACTGTATATAAATAATTCAATTAATAATCATGCATAAAATCTGGGTGTAATAAAAAACA
AAGAATAATTTTTTTAAACCCAAAGCAAGGCAAGGGGTGATGTTACCAAACCTGCCATGT
ATCAGAGATGTGATTAGAAGGAAATCCTTCAAGGGGAGCTTATTTATGGTACCTCGGCCG
CGACCACGCTAAGGG
Sequence 1160
CCCTTAGCGTGGTCGCGGCCGAGGTACTGGGATTACAGATATGAACTACCGTGCTCCCTG
ATACCCTAAATATTTATCAAAATTTTCACTGCTATTTTCTCATAGGATTAAAGGGCT
ATTTATTTATTTTTATAACTACAGCTGACCCTTGAACAACATAGGGGTAAAGGTGCAGA
TCCCCCGTGCAAGTAAAAAAAAAAAAATCATAAAAACTTTAGATTCCAGAAAACTTGAC

Table 1

TATTAATAGCCTACTGTTGACCGGAAGCCTTACAAACAGTTAATACACATTTTGTATGTT
GNATGTATTATATAATGTACCTGCCGGGCGGCCGCTCAAAGGGCGA

Sequence 1161

CCCTTAGCGTGGTCGCGGCCGAGGTACTATAAAGCTTTTGTTCACACACACTCTGAAGAA
TCCTGTAAGCCCCTGAATTAAGCAGAAAGTCTTCATGGCTTTCTGGCTTCGGCTGCTCA
GGGTTTCATCTGAAGATTCGAATGAAAAGAAATGCATGTTTCCTGCTCTCCCTCATTAAA
TTGCTTTTAATTCAAAAAAAAAAAAAAAAAAAGTACCAGTCTCACATTTGGCCCAA
ACCTCAGGATTCTCCCTCTGCTTACTTCATGGTACCTGCCCGGGCGGCCGCTCAA
AGGG

Sequence 1162

CCCTTAGCGTGGTCGCGGCCGAGGTACCAACCCTATTTTACAGATGGGAAAACCTGAGGCT
CAGAGAGGTTAAATCACTTACACAAAGCCACACAATTTTGTGAGAGAGCTGGAATGTGA
ATCCAGGCAGTCTGACCCTGCAGCTTATGTGCTTAACGATACTGCCTCTCATGTGGGCAA
AGGATGGCCAGGAGAAAGGCAGGCCAGATTCCAAATCTGGCTTGACCGTCTAAGAGGC
TGAGTCTTAACCTCTCTGAGCCTTTGCTGTTTCATCTGTAAAGTGGTCTCTGACAGCT
GCCTCCTAGGGTTGTTTTGAGGATAAAGTGAAGTAATGGAGGGCCCTTGGGATATGGTAC
CTGCCCGGGCGGCCGCTCAAAGGGCNAATTC

Sequence 1163

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTTTACCCCTCTGAAATTACTAAGCAGGCTG
TGCGGTGGTGCTCTGAACTAGGTAGAAGTCTCACCCCCAACAAACCTTTACCAGTGG
TTTTAGCATGCAGAAGATTCTGGCCTGAACCAAGTTACTACTACAGAGGCTGCAAAATGAT
GATTTTTTCATTCACTCTTTNGTAAATACCCGGTATTTTTACAGGATGAATGTACCTGC
CCGGGCGGCCGCTCGAAAGGGCGAATTCCA

Sequence 1164

ACTTNTTTTTTTTTTTTTTTTTTCTTCTTAGCAGGGTCTCACTCTGTACCTAGGC
TGGAGTGCAGGCAACAGGCCAAGACCCTGTCTCCTCAAAAAGAAAAAGGAATAATTCTAA
AAGACTTATATTGATTTTTTCCCAATTAACATTAACGCCTCCACCTGCCCGTGCGAA
ATTGGGTTGGCATGTCACTGAAAGGCAAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 1165

CCCTTAGCGGCCGCCCGGCCGAGGTACAAACTTTCTTCAGTTCTAATTTCTAAGATGTTTC
ACTCTTTAAGTAGAAATGAAAGTCACTGACTGAAAATTATAGCAGTATCTAATTGTTTT
TCATAACTAGCCAAATTCAGAAATGCTCTGGATATATTTCTGGACAATGTAGATGCTGAT
ATCCTTGGATTTAGGTATACTGACTTTTATCTTTACCAAACCATATTAACATTTGCATT
TTATAATTGGAATGAGAAATTTAGAGTAAGAGATCTGGATCATGCAGGCAGGCAAGCATC
AACCAACAATACTTTTATGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 1166

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGCAGTGGTTTTGCTCTATACCACTGAAAA
GCACTATAACATAATTGTTGNCCATGATACTGAAGCTTTTCCCCTCACTTNTAGGTTGTT
TACATTACAGAGCTCTATCAATAAGANGAATACATATTACAGTGAATTCGACAACCGCACA
AGTNGGCAGTNGGTATCCCCAACCTAATTTATCTTGGTAAATTCACCCTGTTTCCTAGTG
CTGNTGGATAAAAGAGTGTCTTACTTTTTATTGCTNTTAGACAGAGTAGNCTANATAANTT
TTCAATTTATCAACATANCCTAGACTTCTGTAAGTGGAATGNTCATTAGTAACATCATCTT
TTTGTTGNTATAATTGGAAAACAGAAACGAGGCTTATTGCTATTGCAGAAATNCNAACT
GGCAAAGGCCNAGTATTTNTGGTATTCCATTAATATAACCAGCTTTTGAAATTTATGTG
TTTGGATTANTGCCTTCTGGGTACCNAAGTATTGACTCTGNTTAGTTTGGCACCTTTTC
CGGNCTTAACANAAAAATNGNAATTTGGTTAATCTCTTAANATTNGGTNGNANCTAGT
NGANNGGAGGTNATNNCTAGGAANTTTACNAAGAANNNTNGNNACTTGCCNNGGCGNGG
CGNTTTNAAANGGCGNNTCCANCAAANTTGGCGGGCGTTACTAAGTGGGNTCNCNNCC
NTCGGGACCCGAGCTTGGNCGTATTNTTGGGGAGNACCCCTCCNCCCCCNCNTTNTTT
TGGAATAGAAATTCACCCCC

Sequence 1167

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTCTGTCTTCTAATTTTTAAATTTATTAATG
TCTTCTATTTTTCTAAGGCTGATTTTTCTAATGTCTGTATTTTCTTTTTTTCACATC
TTGACATAAGTAGAGTTCATTTATTTTCACTTATTCTGTATAATAAAATTAAGGT
TAGGAATAATTAAGTTTTGCTCCCATGTTTTATGTGTAACAATCTCAATGTTGTATGTC
ATCTACTTCAAAATTTCAAGCTTCCCTTTAAATACTGTTTAAAAAATTTATGAAACC

Table 1

AGTATTTCTCTCAACCCTTNGTGAATACCTGGTTTTACTTTAAATGTGGTCAAGATAAT
TTAACCTGT
Sequence 1168
CCCTTTGAGCGGCCCGCCCGGGCAGGTACGCAGGGATATACAAAGGTGAAAAGAAACCT
GAAATATTTGTTGATGGCTGGAATATTTATTTTTTATGATCAAATAGATGAACTGCCTACC
TATTGGTCAGAATGTGGAAAAATACAGAATCTGTTGGGCAGTTATGTTGGGCCCTTCTT
CGTTTCTACACAGAGGAATTTGATTTTAAAGAACATGTTATTAGCATCAGGAGAAAAAGT
CTGCTTACAACTTTTAAGAAACAGTGGACCTCAAAATACATTGTTATTGAAGATCCCTTT
GATTTGAATCATAATCTCGGAGCTGGATTATCAAGGAAAAATGACAAATTTTATAATGAA
GCTTTTATCAATGGTAGAAGAAGTATTTGGGATTTCTGGTCAAGGGGATTTCAAANGAC
TACCCCTCAA
Sequence 1169
CCCTTAGCGTGGTCGCGGCCGAGGTACACCTGGTTTCACAGAAAAACAAAGCAACTCTTAA
ACACCAGCTGGCAAAATGATAGGGCTTTTCCCTTTGAATTANTCACCACAGGTGTGAAAGA
CAGAATGACTAATCCATCTGATTAAACATANACCTTTTAGAAATCAATAACCTTATTTAC
ACAGATGACAACCTGCTACTGTTCCAAGGLTCTTAATCATGGTTCAGTTCTCAGGGCCTCA
AGTCTTTTTCCATTCCATCNCANAGTANTACCTGCCCGGGCGGCCGCTCGAAA
Sequence 1170
CCCTTAGCGTGGTCGCGGCCGAGGTACCGCAGCTAGGAATAATGGAATAGGACCGCGGTT
CTATTTTGTGGTTTTCGGAACTGAGGCCATGATTAAAGGGCGGCCGGGGTGGCTATT
GTGGGAAGTCATAACCCACAGATAGATCAACCTAAGAATCCTGGCCCTTCTCCACTCTCC
ACCATGCAGGACAAACATCTTCTCAAGCAGTCAACGTANAATGCTTGGGAAATAGTCATA
ATTACCCACATATAGTAATTAATAGATGGTAATTAATTGATCCTTGATGTGATGTTCTTT
TGCATATTTCTTCATTCTAAAGNTGTTCCCTGCCCGGGAGCGTTGGCTTTCGCTGTAA
TCCCAACACTTTGGGAGGCCAGGACAGATCGCTTGAGGTGAGGATTCGAGACCAGCCCA
GCCAACATGGCGAAACCATGTCTCTACTAAAAATACAAAAATTATGGTGACGCCTGCCTG
TANTCCAGCTACTCGGGANGCTGAAGCAGGAGGATCGCTTGAACCCATGAAGTGGAGAC
TGCAGTGAAGCCGATATCGCACCANAAAGNGCTCCAGCCTGGTCGACAGAGTGAAGACTCC
NTTCTTAAGAAAAATAAAATAAANGTTGTNTCTTGAAGAAAAAAA
Sequence 1171
CCCTTTGAGCGGCCCGCCCGGGCAGGTACAGGAGGAATGTTTGGTTGGGAGAATCACAGC
TTTACAAGGGTGTTTATATTTGATTTGTGTTTATATTTGAGGCAGGTATTGTAATATAAA
GGAATCCATTACCATGTCCTATAAATGACCTCTAGCCATTTTATGATTATTGTTCTCTGT
AAAACCTCTTCAAGACTTCAATGAGAAGTTTGTGTTATAAGAATTATCTTCTCATACCTTTC
CTTGTAAGAGCGTATTCTGTTTTCTATCAGTTCGACATGAAGTCCACATCACATGCTG
TTCTTTCTAGTTACATGATGTGCCT
Sequence 1172
CCCTTAGCGTGGTCGCGGCCGAGGTACCAACCCTATTTTACAGATGGGAAAACCTGAGGCT
CAGAGAGGTAAATCACTTACACAAAGCCACACAATTTTGAAGTGGCAGAGCTGGAATGTG
AATCCAGGCAGTCTGACCCTGCAGCTTATGTGCTTAACGATACTGCCTCTCATGTGGGCA
AAGGATGGCCAGGAGAAAGGCAGGCCAGATTCCAAATCTGGCTTGACCGTCTAAGAGG
CTGAGNCTTAACCTCT
Sequence 1173
CCCTTCGAGCGGCCCGCCCGGGCAGGTACGAAGACAGCATCCTTCAATCCCGCCAGCTCA
TGTGCATCTGAGGGTGGGGCTCTGTCTTCATGCTAGAAACCAAACCTGCTCTCACAGCTTC
CTGCTAAATCACCACGGCTAACGGATAAGCAGAGACGGACTACCCGCGTACCTCGGCCGC
GACCACGCTAAGGG
Sequence 1174
CCCTTAGCGTGGTCGCGGCCGAGGTACAGATTGCATAATAATTTTATAGATAAATGTCAGG
AACAGAATCACATTCTTAAAGGCNGAATTTCTATAAACGTGTGTATATGTTGAACAGAT
GAGCAGCTCTGCAAAGATGTGTATAACTGCATTTGAAAANGACAGTGAAAATTTTGGGTT
ACTGTAGATGTCCACAGTCTGNCTTGAATTTAGTTCTGTGACTAAAGGAGGCTTACAG
NTGCTCCAATTTTGGTTCTGNNGGGTACCTGCCCGGGCAGCCGCTCAAGGGCGAATTCCA
G
Sequence 1175
CCCTTAGCGTGGTCGCGGCCGAGGTACATGGTCACAACAGATGAGCAACTGATATCACTC

Table 1

ACACATGCTATTAAGAACTGTCCTGTGATAAATAACAGACAAGAAATTCAGGCATCAGAA
AGCGGAGCCACAGGTAGAGAGTTATGGACAGTCCAGAGCGTCCAGTTGTAAATGCCAAT
GTCTCAGTGCCATTGATGTTTCAGAGAGGAAGTGGCTGAATCCCACAGGAAGAGTTGCC
GTTAAACTGTCTCAGGTGCCAGACCCTCCAGATAACATGAATCTGGCCAAGAAATTTCCA
GCACATATTTTTGAGCCAGCTGTGTTGTTAACACCAC

Sequence 1176

CCCTTTCGAGCGGCCGCCCGGGGCGAGGTACCGCGGCCGTTAAACATGTGTCACTGGGCAG
GCGGTGCCTCTAATACTGGTGATGCTAGAGGTGATGTTTTGGTAAACAGCGGGGTAAG
ATTTGCCGAGTTCCCCGCGTACCAATGACTGGTTCATGATCCCCTAAGAGAACACAAC
TAGGAATGTGGATTCTAATGATAGCTTTATACTGCTTAGGCAAATTTACTTCTGAGCCTT
ATGTGCCTTCAGTGGTGCAAGCAAATTTCCCTTTACACTTTAGAGAGGTTGATTAACGAGT
ACCTCGGCCGCGACCACGCTAAGGGCGAATTCAGCA

Sequence 1177

CCCTTAGCGTGGTCGCGGCCGAGGTACACTGAAGAATTAAGCTGTAATGAGGCAACACGC
CTGCAACTTATTCTTTAATAGTTTCAAGAAATTAACAATTTGGGTAATTTGGGTGAAAGGT
ATAAGGAGCTATAAATGTTATTTCTGCACTTT(ATGTAAATTTCAAGTTATTTAAATG
AAAAGTTAAAAAGTTTAAACATAACAGAATAGAACATAACCTATTAATAAATCTGAGT
CCAGGCATGACACAGTGGTTCATGCCTGTAATTCAGGGAGGGACTGGGAGGCCGAAGTG
GGCAATCACTTGAGGTCAGGA

Sequence 1178

CCCTTTCGAGCGGCCGCCCGGGGCGAGGTACTAAATTGTTTTAGAAGCAAACCTACAGGACTT
AAAAAAGGTGATTTTTTTTTTGGCTGCAAGTAGGCCTTATTGTAATTTTTATTCTATG
CTATGAACCTCATGATTTTCCCTTTATTCTCCTTTGATCCTACTTAAATAAATTTATAGAG
TATTGAATAATATAGAACCAAGATAAGAACCCCTAAGAGACTTTAGATGTTTATTGTTCA
TTAGCACTCTGAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 1179

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTNCCTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCNGTNAAAAAAAACCTGCN
TCCTTTAANGGNNAANNCATTTNCTGGATTAAANNNCCCCNGGAAAAANGNNGGGGAC
CNTTTTTGAAAAAANAATTANGGAATTTAAAAANGGGGGGNGAAAAATTTNNTGCGGG
NNATTNNTTNNAAAAAATACANTTTTANTTTNANCATNTTTNNACNNNNCNCNTTTAA
ANTTTTNAANAGGTTTTTACNCTTTTTGTAAACAACCCCNNGGNAAAAAANAATTT
TTTT

Sequence 1180

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTCTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCCCNANCTNNTTTT
TTTNCNTTTTAAAAAANTTTTTNNNAAANGGTTTTTTAAAAANTTTNNNNGNNGGA
AANTTAANANNATNANNNGGNANAATTTTTTTTTTTTNCNCCAAAAANTTTTNGG
GGCNTTAANTTTAAAAAANTTTNNNNCCGGNTTTTGNNNNNGNNGGNGGGAAAAAA
AAATTTAAAAAA

Sequence 1181

CCCTTTCGAGCGGCCGCCCGGGGCGAGGTACTTAGGCTTTCATAAAATACAGCAGGGCAAG
AGGACCAAGATGGAGGCAGTGATCAGGGAATCTCAATGAGGGTGAGACTGCGACAAAGAC
TTGAAAAAGGTGGAGAAGCAAGCCTTGTTGGGTATTTAGGGTAGCAGTAGTCAGGCAAGG
GGAACAACTAGTGCAAAGGCTCTAGGAGGCAATGTGTTTGAAGTGTTTAAAGACAGTAA
GGAGGCTAGTATGGTTAGAACAGAATGAGCAAAGGGGGCCAAAGTGGTAGAAGGTGGGGA
TCAAAGAGGTAATGAGGCCTTG

Sequence 1182

CCCTTAGCGTGGTCGCGGCCGAGGTCTAATGAAAGCCAGATAAAGGGATGGACGATCAC
AAGGTGAAGTCCCACANTAGGCTATCTGCAAGCTGAGGAGCAAGGACCANTCATCCAACC
TCAAATAGNANAAAAANGGNNGNAAGCCCCGACAGGGCAGCCTTCAGTCTGTGGCTGAAGG
CCCTAGAGCCCCCTGGCGAACCCTGGTGTAATCCAAGAGTCCAAAAGCTGAAGAACTTG
GAGTCCAATGTTTGAGGGCAGGAAGCACCCAGCACGGGAGAAAAAGATGGGCCGAAGACT
CAGCCAGTCTAGCATTTNCACATTTCCCCCGGTACCTTGCCCNNGGCCGGG

Sequence 1183

CCCTTTCGAGCGGCCGCCCGGGGCGAGGTACTTTCTTTTGTGTATTACTTTTCACTTAGC

Table 1

ATAATGTCCTCCAGCTTCATCCATAGCAGCTTCATCCATAACTTCTGGGTGTAGCCATGG
CAAGGGTAACTGATATGGCACACTGGTGGGCATGTCTTCTGGAGAGGTGCTTCCAACCT
TTCCCTGTTTTAGCTAGTCCTCAATTTGTCTGATGTCTGAACCCCACTGCCAGAGTTGAG
TCTTGCCTGCTGAGTCATGTCCAGACTCCTACCTCAGAAGTATGAAGCATAACTGGTGTT
ACAAACACCATCTTCAGAACAA

Sequence 1184

CCCTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGGAAGCTCATTCTATACCCGAAGAGCA
GTCTCAGAAAGCAAGATTACTTTTGTGTTTTTAAAAAATGATTCTTTAATGTAANTTTT
CTAAACATTCTGATTGGAAGTAGTGGATTCTAAATGATTCCAAAGTCATCTGTAATTCT
TCTGTTTTGTGTTTGTCTGTCTTTCTTCAATTTGGCTTTGGGTGGGGGGAGGGGCAGG
TGACACAAAGGATTTTTTTTTTTTTTTAATTTTTGGAATCTTTTNCATAACCCA
GCTAAAGATTTGCACTGAATACAACCTGTATGCCTTTTGCAT

Sequence 1185

CCCTTCGAGCGGCCCGCCCGGGCAGGTACTCCTGTATTTGTTCTTATGAAATGACTATCTG
CCTTCTCGTATCTAGTAAGATTGGCTGGCTCAACTTTCTTCTGTCAAATTATATGGTTAT
TTTTATATTACCACATCAGCATTATATTAAGTGTTTTAAATAGTTGAATGATTTTG
CCAACCTAGTATAGACTCAAATTTGCTATTTAATTTTTAAAAATACAATTTATTTGTA
AATCCTTTAAAAAATATTTGGTTAGTTTGGATTAGAAATGATTTATGTTAGCCATGTGT
TGAAGATGAAATTG

Sequence 1186

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACATATCCCTATCTACTATGTAAAGACAAAAAG
GCAAAATGAAATGATGTAATACAATGAACCTCTCAGAAAATAAGCTCTGTAAATCTCAGA
CTGCCTGTTTATCATATGCTAGAGTAACTTACATTCTTTCTTGTAGAGAAAAATGAT
GGTAAATCCATGCATTAATCAAACTAAAAACATGAAAAGGCAAGCCAACCTACAAGAGA
AATACAGTTGGCCCTTGAACAACACAGATTTTGAACCTACATGGAGTCCCGTGTACCTCGG
CCGCGACCACGCTAAGGGCGAATTCAGCACACTGNCGGCCGT

Sequence 1187

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTCTCAAATAACCTGTGAGTTGGGAAATTCCT
CTCCTCTTGAGGTCCCAAGATGGCGTGGGGTCTGCGGAAAGTGGCATTCTT
TACTAACACAGGTCAGGAACCCTGCACAGGAAGTGTGTAGACAAGGTATGAGGCCAGTT
TTCCCAAGGAACTTTATTGGCTCCATAAGTCAAGTTTGAGTCCTTAAAGGAAAGCACAC
CATTTCCATCAAAGTCTGTTAAACAACATAGTTTCTCTAATTGTGCTCTGTTGCAAAAG
AAAACAGATTCTTATTGCACTTGTGCAA

Sequence 1188

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACATATCTTACTTGATTATTTATTTTCTATCC
CACCAATCCACACCTTCACTGGAAAGTAAAGTTCCATAGAGGCGGAGACTTTTGTCTATTT
TGTTCAATGAACATCCCAAGCACCTAGAACAGTTTCTGACACATAAGAAGTATTCAATTA
TGTGCTGGCTGAATGTATGAATTAATAAGTTGAGATTGATCACTAGTTGAAGTATAAAT
ATATATTTTTGCAAGAATAAATGCTACAGTAACTGATTATGACAGCTAATTCTGTGTACC
TCGGCCGCGACCACGCTAAGGGCG

Sequence 1189

CCCTTAGCGTGGTCGCGGCCGAGGTACAATGGCATAGTTGAGTAGTCAACACAGGACCTA
GCTGAAATCCTAAAAATATTTATTATCCCTTTATAGGAAAAGTTTGTTAATTCCTACAATA
GACAACGAACATCAGAATCTATCATACACAGCAATGGTGAACACCTATTCCAGTTGGGG
TGTGTGTGTGTTGTGTGTGTGTATGTGGTGGGT

Sequence 1190

CCCTTAGCGTGGTCGCGGCCGAGGTACACCTGGTTTCACAGAAAACAAAGCAACCTCTTA
AACACCAGCTCGGCAAAATGATAGGGCTTTCCCTTCGAATTAGTCACCACAGGTGNGAA
AGACAGAATGACTAATNCCATCTNGANTAAANATAGACCTTNNNAGAAATCAATNACNCT
TATNTTACA

Sequence 1191

AATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTCTACCATCTTTTGTCTACTTTCGTG
ACTTAAACTGCCATCTGTGATACATGAGGACTTACCTAAAATGTCTGAGAAGTACTTAC
GCTTGATTACCAATGTTTTGGAGTTTATAAAGCTCAATTCTAACAGAACATGATGATGTA
TAAAAATAATCTTAAAAAATAAATATGATGGTATAGTAATAAAGTAAAAATAAATATGG
TACCTGCCCGGGCGGCCGCTCGAAAGGG

Table 1

Sequence 1192

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAAAACAAATCTGAAATATCTTATTAAACAAG
AAAGTAAAAATGTTATCAAAAACACTGTCGTCTCATCAAAAAGATTGAGAAGCCAATTT
AAAGAGTCTCACACTGGACACAAAAATAATTTGAGCTTCAAAAATAAACTGCAAGGGATTA
AAACACATAAATTGTGTTAAATCCACAAGTTCATAATGATACTAAAAAAAAAAATCTT
GTTGGTTTCCTCTAGAGGCTACTAGAAAATCAGCTCATTATTTCTGATATTGTTTAAAT
AGAAGAAAGAAAACCAAGCAT

Sequence 1193

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TCATNCAANAAANATAATTTTACACTTATTCTTTGAAAGANAAATTCTATGGAATTTTNT
TNTTCTAATTNAATTCCAAAATACATTCTNTNANCCNTATGCCCTNATACTAGNAACTNG
ATGGTNAGCGGGTAAGTAGGTAGTAGTANAANAACANAANGGGAAATTNGGGGAGCANAA
AAGGGANAAA

Sequence 1194

CCCTTAGCGTTGGTCGCTGGCCGAGGTACATATACATTATNGTAATTA AAAAGCGTG CAT
GTGTATGTATTA AAAATAATAGGTATATAAACAATACANTATNTACAATNNAACACCT
AAACGCAGAGGCTGCTGTTATC

Sequence 1195

CCCTTAGCGTGGTCGCGGCCGAGGTACATAGTGTGCGGAACTCAAATCGGCATTTAGATA
GATCCAGTNGGTTTAAACGGCACGTTTTTGCTTATAAAAAAAGTG

Sequence 1196

CCCTTAGCGTGGTCGCGGCCGAGGTACTAAAGGGAAGTTGCTAGGAAATANAGCAGGTAA
TTTNTCGTTAATTATGGAAACCATNGCAACACAGTAAATATTATGTCTCTNAATTTGTCT
TTCAGTGNTTTTTGGCATGANTGTNATGGAANAGTAAACAAA

Sequence 1197

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGGAAGTGTCCGGAGGAATATATAGAAAAC
GCTAGGCTTAATTCTCAGAGGGAAGATTGGGTGTTGGAGTGGGAAGCAAACATTTTTTA
CTGTATACACTTGACCTCGGCCGCGACACGCTAAGGG

Sequence 1198

CCCTTAGCGTGGTCGCGGCCGAGGTACATGGCCCCGCTCCCCCGTCCATTCCANTTTCCTG
CCCTCTACTGGCCATGACGGTCATCACAGTGCCCTCCTCATTCTAACTTTTAAATACAC
TTGAGACCCGCCTGATTAATNTTGCCTANGAAAAACAAAACANAACAANNAACA
AAAACAAGACACTCACATAAATGTTTTTAATGCTTGAAAAGTACCTGCCCCGGCGGCC
GCTCGA

Sequence 1199

CCCTTAGCGTGGTCGCGGCCGAGGTACCACATTCCTGCTCAGAACTGCTCACTTCCTTA
AATTGTCTTTTTTCCCCAGCGTGAAATGTATCCATTTATAACTTGCTTATGCTGTTG
TATTAGCATCCAAAATGTGGAAGGCCCTCCCAACCACCATTTCTNGCTGTGCTTAGGA
TGTGCAGNAAAAATATAGACCTAACAGNTTATGTTATAGAATGGGTTATTTACTTTGG
GTGACTGTTTATAGTTTTTAAATAAAAGACTGAACATTTTNTCGAAAAAAGAAAAAGA
ANAAGAAAGTACCTGCCCCGGCGGCCCGCTCGAAAG

Sequence 1200

CCCTTAGCGTGGTCGCGGCCGAGGTACTTACAAAAAGCAAGAGAGAACAGTGGTTAAGG
ACGCTGACTCTGGAGCCAGATTGTTTGGGTTCAAATCCTTGCTCTGTCTTACTGTGAC
GATTTTAGGCAAATAACCTAACCTCGCTGTGCCTCAGTTTCATCATCTATAAAATGGAAT
TTATAATAGAACCCTACATCATGAGTTGGTGTGAAGATTAAATATATTTATATCCCGGCTG
GGTGGGTTGGCTCAACCCTGTAATCCAGCACTCTAGAAGGCCAAGACAGACAGATCACC
TGAGGTCAGGAGTTCAAGACCAG

Sequence 1201

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGGAAGAGTAAGTGGGGAGGGATGGGAATGGT
TCCTTGAGACAATCTTTTACTACAGTAGATGCTTCATGGATGGGAGAGTAGGGACTGGTG
ACTTATTTATAGCCTTCTCTTTTAAAAAAGGACCCATTTCTCTTGAATGGTGTGGTGA
AAATTAAGAAAAAAGAAAAAAGAAAAAAGTACCTCGGCCGCGACCAACG
TAAGGG

Sequence 1202

CCCTTAGCGTGGTCGCGGCCGAGGTGCTTTTTTTTTTTTTTTTTTTTTTCTTTTTTT

NTTAAANNTTTNTNTNCCAAAAANTTTNNTTTGGAAATNCAAAAAANAAAAAGGTTNNTT
 TTNTNCCNTTAANGANCNAAANTTTNAANAAAAANTTTT
 Sequence 1203
 CCCTTCGAGCGGCCGCCCGGGCAGGTACTAGTCCATTCTCACACTGCTATGAAGAAATA
 CCTGAGACTAGTAATTTATAAGGGGAAGAGGTGTAATTGACTCACAGTTCTGCAGGGCT
 GGGGAGCCCTCAGGAACTTATAATCATGGCAGAAGGTGAAGCAAGCATGTCTTCGCAT
 GGCAATGGCAGGGAGAAGTACCTCGGCCGCGACCACGCTAAGGG
 Sequence 1204
 CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTCTACAAATGAGTAATTGAAGAATTTT
 GTTAGCCAGACCATTTAATTCTCATCAATTGCATAATATTCTAGTTAAATCCGAACTT
 CATTCTATATTAAGTAACATTTTATTCAGATCCATAATGCAATTTTGTGAGATT
 TACTAAGAATTTTTCTGGTATGTATGGTTTTGGTGTATTGGAATGTACCTGCCCGGGCGC
 GCCGCTCAAGGGCN
 Sequence 1205
 CCCTTAGCGTGGTCGCGGCCGAGGTACCAGAAGCTAATCCCCACCGGGGTTGGTTTTAAAT
 AGGGACTAACTACTTTGGAGGACATGGAAGATACCTCAAGTTTAAATGCTTATAAACCAA
 GGCTCAGCAATATTCTAGTTAATACTCTAGAGGAATGCTTGACAGTGCCCAAGAAGGTA
 TAAAAGAATGTTTATTAGGTGTTATTTGTCATAGTGAAATACTGGAAGCACTGTAACG
 GTCCATTACAGAAGAACGGATAAAAACTATTGTGACTAATTATATAACAGTATAG
 Sequence 1206
 CCCTTAGCGCGCCGCCCGGGCAGGTACAAACAATTTTTTTAACTAGCAGGGCATGGTGGT
 TTGTGCCTTTAGCCCTAGCTACTTTGGGAGTCTGAGGCAGGAGCACTTGCTTGAGCCCAGG
 AGTTTGAGAATACAGTAACTGTATCACACCACTACACTCCAGCCTGGGTGAGAGAACAA
 AACCTGTCTGAGAAAAAAAATTAACCTGAGATGCATTTCCCCCTTTTACACTAAGA
 AACAGACCCTTCTTTGTTCTCACTGGCCGCCAAAGGGAATGCTGTATGAGCATTTCAGG
 TGCAGATGCAGCTGCGATATCAGAAGACCCC
 Sequence 1207
 CCCTTCGAGCGGCCGCCCGGGCAGGTACCTTGATCTCTAGCAACGAGGGAAAATAAGAA
 AGATCAAGATTATTGTGTCTAAAGAAAACCTGGGAATATATATACTTGACCCGCTTCACCT
 GCTTACATTGTCTGTCTGATTCTTCCAGGCATTAATTAGAATTTGCAACTCCTAGCTGGG
 CACAGTGGCTCATGCCGTGAATTCAGCACTTTGGGAGGCCGAGGCTGGTAGATTACTTG
 AGGTCAAGGATTTCAAGACAAGCTTGGCCAACATGGCAAACCGCATCTCTACTAAAGGTA
 CCTCGGCCGCGACCACGCTAAGGGCGA
 Sequence 1208
 CCCTTAGCGTGGTCGCGGCCGAGGTACCCATATTGCTAATGCTAGGATCAAGATACCACA
 TAGCCAGAACAAGAAGTTGAAGGTAAACATAGAATTTTATACAGGCACTCACACCTGC
 CATTTCGGAAGGATTTAGGAATCCAGATGCCGTGAATTTAACTATTGTTACAGGCTTG
 TCCTGCAATATGCTCTGGAGCAACTTGCCTGCAGAGATTTCTGTATCCACGGACATTTAA
 ATATCGCAAAGGCTATCTCCAGGCAAGTATGTTCTTTGCTTGTATCCCCGCGTACCTG
 CCGGGGCGGCCGCTCGAAG
 Sequence 1209
 CCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGAGGTCTCCATTAGTAGGTGGCCCG
 GGGATGAAGGCCAGTGTTGNGGCTAAACCACACTCTGGAATTCTGTACGAAATTCCTNG
 CTGTGTGAACCTTGAGCAAGCCATTACCTTTCTTAAGCCATTTTCTTGATATTTACAGA
 GCCTACCAAGTATTCAACGAGAACATGTAAGTGAAATGCTTCACAAAATGCCTGGTAA
 TAATGAGTGTAGAAAATGGTAGAGAGAGAAAAGAGCAGTCTCTGCCCTTAAATGTACC
 TCGCCGCGACCACGCTAAGGGCGAATTCAG
 Sequence 1210
 CCCTTAGCGTGGTCGCGGCCGAGGTNCAATTGTGAGAACTCTGGAATTATTATTTTTATT
 NATTATTACTATATTTATCTGACTAGAAGCCATTTATTACCAAACCAATTTATTTCTTA
 NAGTTGAAAACCGTCTGTGAGAAGCTTCTCTGGCCTGGATGGAGATCCAGCGCTTTTTT
 TTTTGTGAGGCAGAGTCTTGTCTGTCTCNCAGGCAGGAGTGCANTGGCACGATCTNTGNT
 TACTGCAACCTCCACCTCCTGGGTTCAAGCAATTCCTCT
 Sequence 1211
 CCCTTAGCGTGGTCGCGGCCGAGGTACTCTGCCAAGAGGGCGACAAGTTCAAGCTGAGT

Table 1

AAGGGGGAAATGAAGGAACCTNCGCACAAGGGGGCTGCCAGCTTTGTGGGGCATTCCAGA
GAACCATGTGCTGTGAGGGCCCTCCGAGTCCATCTGTTTAATCCTGTCATTGGAGACTTG
AGAAACCAGAGCCCAGAAGGGAAAAGTGATTGTCCCAAGATCACACAGCACTGGAGAAAG
TGGATGAGGAGGGGCTGAAGAAGCTGATGGGCANCTGGATGAGA

Sequence 1212

CCCTTCGAGCGGCCGCCGGGCAGGTACATACAGTTTACATTGTGGTAACAAAGTAGGAC
ATGCTATGAAGGCCCTTTGAATTCGCTTGACAAGAATGACAGAGATCTACTAGACCCAAT
TTTTAAATAATATTGCTGGTTTTTGTCTCAACATGAATTAATAATGTTGGCTAATGTGCA
GATTTTACATTTGGAGAACTTTAATTTTCAGTATTAATTAGAATTTGTTTAAATATTACAA
ATGCATTTAATGACACTTAAAAATTGTACCTCGGCCGCGACCAAGCTAAGG

Sequence 1213

CCCTTAGCGTGGTCGCGGCCGAGGTACCAATAAGCATACCTAGAGTTGAGATTTTGGTTT
CTAAATGCCATTCTCCAATTAAGGAATCAAAGCACCTCAGATAAATGTTTAAATCCA
GGGCTGGGGCAGGGAAAGTGAAAGAGAATCACAGAACATCCTGTAATGACAGAAAAAAGT
CACATAAATGGTGGGATTATGTCAAAGGACATGGGATTCAACTTGAAAGATCTTCCAA
TAGCCAAATCTGAGAAAAGTTAAGCAACAAAAAATAACAAATCTTATAATCTATAGA
AAAAATATGAATGTATA

Sequence 1214

CCCTTAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTANAAATNGG
CGGCAGTTTATTAGTCACAACTGCTCACAGGGAGGGAGGTCACCACATGCCATGCTGGGG
TCACAGGANAGTTGCATTTGGGAATANAGTGAACCAANTAGGGGCTGTGGAAGGCAGGCTT
TGCAGTAACAAGAGGAAGAGGCGATTCTGGCTCCTCCAAATGTGACAGGCTTGTGTTGAA
TAATTTTCCAGGCTGGAGGGAAGTGAGCCACGTTGANACCCANGGAG

Sequence 1215

AGCGGCCGCCGGGCAGGNACAATTAATTGTGTTCTTGTGACCTGATGATTTTNGAAAA
TTTGCTTTTCTCTTTAAGAAATTTAAGTTTTCAAGGGCCGTATTAGTTATCTAAATATTT
TGGGCTAATGTTGACTTATAAATAAATAAAATTTAGAAATATATTCATGATGACAATTT
TGTTACTTACACTGCCTATTCTTTATTTCTTTTTTAGTTCAAAGGTGAAATTTTGACCTT
TGTATTAACAAAGCCTCAAGAAAAGAGAAATCTGCCTTTTAAACATTGGTTTTCTTGC
AT

Sequence 1216

CCCTTAGCGTGGTCGCGGCCGAGGTACANGGAGGAANTNAGANGTAAATNNAACCAGAN
CTGGATTACTCCGGTCTGAACCTCANATCAGANTAGTGACNTTAATCTGTTGAACAACTG
AAC

Sequence 1217

CCCTTAGCGTGGTCGCGGCCGAGGTACCACTGTGCTNTAGCCTTGGTGACAGAGCAGAGA
CTGTCTTTAAAAAANAAAAAANAAAAAATNATTAAAAATTTAAAAAATGAAA
AAAAGCTGCATGCTTGNTTTTGTGTTTATGTTATTCTACATTGTTGCCATTATTACCAA
TNTNGGGGAAATNCAACTTACAGACCAATNTCAGGAGTTAAATGTTACTACGAAGGCAA
ATGAACATGTGTAATGAACCTGGTAGGCATTATTTATTGAATNTNANCATTCCANATG
TCCAGCACATTTTAAT

Sequence 1218

CCCTTAGCGTGGTCGCGGCCGAGGTACAATGTTAAATAATCTGACTTTTCTATGATTG
GCTTTTCTGCCTTGAGTAACATNTAAGATATCTAGCGTGATNTNTTNTATNTGGGCTA
CTTTTGAACAAACANAGGTNTTANAANAACCACTTGCCACANGGNCCTTTGAAC
CGTTTACCTAAGTCAAGTGAATTGAAAAACATAACCAATGCACCANGGGGTNTATTGT
NAGATAATAAAA

Sequence 1219

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTTTTTTTTTTTTTTTCGTCAAAGTCACTA
TTTGGGCCCTAACATAATCCTGCTCANAGCGACGAAAAAGGCAAGCCTTTTCAAACAT
AACTCTCTCTACAAGCCAGCTATTATGGCAAGGGAAAAAGAAAGCATCTAGATAAATAT
CTATCAAAATTAACTTTAAAGAAATACTCTCTTTCTTAAAGCCCTTATTTTAAAGA
CACTANAAAAAAGTTACTATAAAAGTGGTGGTCTGGGGGCTAAAAACAAAAA
AATCCTCTTTTCTACATTTTATGTTTT

Sequence 1220

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAATTATCAACTGATTGGTCAGTTGCTTCCA

Table 1

ATGCTGGTTGATTCCCTCATTGTGTAAACATTGACAGGTATGTGACAAATGGGGAAAAA
AAATCCAAATAATAAAGTGACATATTGGTGTCATAAAAAAAAAAAAAAAAAAAAAA
NAAGTCCTTTTTTTTTNTTTTTTTTTNTTACTTNATAAAAAANACNGAGTTTTATTCA
NATGTNTNTNTTTGNGNCCCCACCNTTTNNATGTTTGACCACCNNTACNACTNTNTCCT
NTNATAACATTNCCATACATACTTAAAC
Sequence 1221
CCCTTAGCGTGGTCGCGGCCGAGGTACCTGAGCCAGGCCAATCAAAGTGTTCAGGAA
TTAGGAATTCACACATAAACCTGGAGAGATAGCACATGCTCTTCTTTCTTCTGGAC
TGTGAGCTGTACCTGCCCGGGCGGCCGCTAAGGG
Sequence 1222
CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTNAACAAACCCTGTTNTTGGNGGGTGNGGGTATAATACTA
AGTTGANATGATATCATTTACGGGGGAAGGCNCTTTGNGAANNANGCCTTATTTNTNTTG
TCCTTTGNACTGGGCTGGAANACCTAAACCTACNTGTAATGTAAGTAGNGACCAATA
AAAAATAAGGNTACCTTAACCTTCTTTTTCT
Sequence 1223
CCCTTCGAGCGGCCGCCCGGGCAGGTACACTGAACAATTTGTTAAGATAGATCTCACCT
TGTGTTCTTACTGAAAAAAAAAAGAAAGAAATAGAACAGAAAAGCAATTGGATTTTAA
TTCTGGAACTCCTTTCTCTTCTTACATCCAGGAAATTTGCTGTTATTTGAAAAGCA
AATTTAAACCTATTAAAGGAGAGAGAGCTCTTGTAATAATTCATTTATTAGTTCTGGAC
CAATGTTATTTATAAGCTATTATTTCAAATGATAAAAAATAATGCATAATACATTTGAT
GATAGAACATTTTTCTTTT
Sequence 1224
GCAGAAATCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTCTCAAGACCTCACTTTTATC
TGTGAAATGTGGGGAAGGTTTATAAGTAAATGAATGAGGGGTGAGGTTGTTACCATTAAT
GNGCCTTGAAGTNATATTTGTGGATAGCTAAAAGCAATTTTGGTTATTTGGTTTATTC
TTTGGTTA
Sequence 1225
CCCTTAGCGTGGTCGCGGCCGAGGTACATCATTTGATGTATGTTTTGTTTTTTAACAT
AAAAGGATTATATCCTTTTCCGCCAGCTGTTTCACTCAATACATTGTGAAAATATTTTC
ACATATGTTGCATGGGTTTCTATAACATTTGAAATGACTGCCAAATATTTCACTGTATGA
TCATCATTTAATATTATTATCAATTTGTATATTTAAGTTAGAATTTTCCATTACCATA
AACATCATTTAATGAATGAGCTTTCTTGAAGTGTATTTAATACTTCTTAGGATAAATG
CTTAAAGTAATAA
Sequence 1226
CCCTTCGAGCGGCCGCCCGGGCAGGTACATATACACTATGTAATTAATAANGCGTGCA
TGTGATGTATTAATAAATGTTATATAACAAATACAATATATACCAATAAACACC
TAAACGCAGAGGCTGCGTGATATCCACAATAGTAATACCAATAGTATTAATGATGNTAT
GTAAACACAAACAAAAGCAGCGGACCGTATTAATAGGCAACACACAAAAGCACACAAA
GCAAAGCAAAAAGCCCGCCAGTAATGTT
Sequence 1227
CCCTTCAAGCGGCCGANCAGGGCAGGTACCCGATATGTATGTTGAATTAAGAGGATTTT
AAAAATTACCCTTAAGTCTTTGACATNACAGCCCCTGTCACCTCTTGTCANAGTTTGTA
TGTGTTGNTAATNGGAATGTCTATTTCTTAAAGAGCAGAGAACTACAGTTACAGGGGT
ACAGTGTGAGGGGTGACACATTGCTGGATTCTGAGCTCAGGCAAGTCTGTCTGTGCTTT
ATTAATAGAGGTCTATCTTTCTTAATACTGAATGCAATGGACCATTCCAACCTAAGTTA
TCTNGATATACTGGGATTACAATA
Sequence 1228
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTANANA
CAGAGTCTCCCTGTGTTGCCAGGCTGGTCTCAAACCTCTACGCTTGAGCAATCTTCCCC
CTTGGCCTCCCAAAGTGCTGGGATTACAAGCATGAGTCACCATGCCAGCCAATAATGAT
TTCTTGATTGAAGGAATGAATGAATTAAGGTTTCATCTTTGGACACAAAGGCANACAAA
AGTTTGACAAAAGGCATTTTGAAGTAGGACCTTTATTNTAATATTAGTCTAAACAGNG
GGA
Sequence 1229
CCCTTCGAGCGGCCGCCCGGGCAGGCACAGAAAAAATCTACACCAGGTAACACTGGA

Table 1

GGATGCAGGGCTACATTTGCCACTGAAGAAACATTGTTCTCTTGCATCTGAATTCAGTG
CTTTCCAAATAGATGCGTAGATGATGAAAAATGGAGCAGCTTCTTTTATTTCTTCTTCTT
TCCTCCTTGAATTCTAGTACTTTGTGAACTGTTGAGGTGTCCCTTCCTAAGTCACAATTC
ACACTGATGCATACACTATAGTGAAACACTGGCTTTAAGAAAACCTGATTAACAGAAAAACC
GGCAATTGTTATTTATTTTAAA

Sequence 1230

CCCTTTGAGCGGCCCCCGGGCAGGTACAGGTTCTAAAACGAAAGTATTTGGGTAGTCCA
CTTAGTGATATTAGTGATNGTGTAGACAATAATATTAGTCCTAGA

Sequence 1231

CCCTTTGAGCGGCCCCCGGGCAGGTACTCCATAATATAATCTTTTAAATGGGCAACT
TCTAAATATTGATCAACCATTAATAATAATGCTTATAGGGGTAAAAGAAAATNNTTGAAG
CACTGAATTCAGTAACCTGGGTCATGGTCCAATTTTGCTCACTACTTCATATCTTTTATG
TAGAATAATTCCTATNAACATGTTCCCTAAATCCCATCAGTTTGTAAGGCAATGGATT
AAATTATTCAAATGTAGCTATTTAACCCTCAGTNACAATGCCTAGAAACCTATTTATTCA
TCTGTAATATTAAGAAGGCTGAATTTGATTGGATCTTGAAAAATCC

Sequence 1232

NAGGGGGGCGGAAATTTGGGGGGCCCCCTTCTTAAGAATGGCCATTGGCTTCCGGAGGC
CGGGCCCCCGGCCAGGTTGGTGGATTGGGGAATTATTCCTTGCCAGGAAATTTCCGCC
CCTTTAGCCCGTTGGGGTCCGCCGGGGCCCCGAAAGGTTACCATTTTAAAAAAGG
GGGGGGATGGCCTTAAATAACCTTTTTTAAAAAANAGGGTTTTTAAAGAAAAATTTA
AAAAATTTTTTAAAAAAA

Sequence 1233

CCCTTTGAGCGGCCCCCGGGCAGGTACTCCATAATATAATCTTTTAAATGGGCAACTTC
TAAATATTGATNCAACCATTAATAATAATGCTTATAGGGNAAAAGAAAATTTTGAAGCA
CTGAATTCAGTAACCTGGGTCATGGTCCAATTTTGCTCACTACTTCATATNTTTATGTN
GGATTATTCCCTATAAACATGTTCCCTAAATCCCATCANTTTGNAAAGNCAATGGATTAA
ATTATCAAATGTGGCTATTTAACGGCCAGNAAACANTGCCTAGAAACCTAT

Sequence 1234

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTTTTTGCNGATTGCNNNANGANTGCCCCATG
AGGGGGGANAAAAAATNTTTTTTTTATTATNTTGGATCTAGCCTANNCTATTTTTTC
CACCTGCCCCCAATTAGGTATTTCCANTTGCNACCGGCCTAATCCANAATTAATTTGT
NCCTNTTATAATTNGTTTNCNTNANTCCAATTGAAACCCCTTTTGGGGTTATTGNNTCCN
CNCACACTTTTTTNATTGTTTAAANNCCANTAAAAAACANTNTTCNTCGGNTATATAAA
ATAANACGNCCTTTTTACNTTATNGTTAATTAAAAANCCNCAATTCCTTTTNGTTNGNCC
AACCCACTTGGAAAAANTTCCAANTAAACCTCTNCCTTCCACCANGNGANGGACCAAAANN
AGGAAAGTAACCCCTTANTGNAAAAAGGNNTGGGGGAAANNTTNGGGCCTTTTGGNGG
TTNCCGNAAAAANAAGGGGNTAAC

Sequence 1235

CCCTTCGGCGCCCGGGCAGGTACTCTGTAAGTCTGGAAGAACAGGTCACATTTATTGAG
ACTTCTCCCCCACAATTTTAAATCAAGCACCTCCAGTAACAAGTTATTTAATTAGATCG
ATTTTAAGTTGACAACAGATGTATCAGATGAGGAAAAAATTGAGCATGTGTGGTGTGATT
ATATAATAGAATTGGTTTCTATAAACCATTTATAGTATTCAACTTTTATAGTATTACTTT
TTCAGATGTATGGATATATAGACTATTATTTACTAACTGAGGCTCTGCGAAGTGATGTG
AT

Sequence 1236

CCCTTAGCGTGGTCCGCGGCCGAGGTACTCGGATCTNTTATNNNGTNNAATAANNCCCTCT
TTCGTCTACAAGCCACACTTATNCAAAATNTGTGGACAACCTCACACTNGCTATNATACC
TGCTTANATTCTCCTANTTAGTCCCTGAGGGTTTATACCTTTTATCTTTTCATTGAAATT
TTAACAGAGGTTTCTGTGGAAGCAGAGTTAAATGCCTATGTTNACTCCATCATGGTTAT
CTGAAAGTCTGAGGNGCAATTTCAAAAACCTCA

Sequence 1237

CCCTTAGCGTGGTCCGCGGCCGAGGTACTTCTGACTAAACTGGAATTATGAGTGAGGAAGA
GNGNATTACTANATAAATGACTGGGGCAANGCAAAATTGAGGAGGAAATTANAACTGTT
TGACAANACTTTTAAAGAGCCTACTTTGAAATNACAGAAGCTTGATNAATNTTGCAAT
AATGGCTAGAAAGTATGGTTTAACTGGACCCTATTATGCCTTTT

Sequence 1238

Table 1

CCCTTTCGAGCGGCCGCCGGGCAGGTACAAAGCTAGAAGCAGCCTGGTCCAGATGGCTA
TACAAACCCGAACTGTNTACACCCAGACTTTATTCTTCTACAACCAAATTCCTCAAACA
CACAATCTGAACAGTAGCAGTGAAAGGGAGTTTAAGGTGGGGGTGAGGGAGAAGGGAGTA
ATATGGTTTTTTAGTAATATAGTAATTTACA

Sequence 1239

CCCTTTGGCCGCCCGGGCAGGTACGCGGGGCGGTATGTNGGGCCAGAGCATCCGGAGGT
A

ANANAACCTNTTTTNTNCTTAGGAGCCACTATGAGGAGGGCCCTGGGAAGAATTGCCAT
TTTCAGTGGAAAACAAGTTGGTCCGTTACTAGCTAAGATGTGTTTTGTACCTCGCCCCGC
GACCACNCTAAGGGCNAATTTCCAGCACACTGGCGGCN

Sequence 1240

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGCTACCAAACCTGCATTAAAAATTTCCGT
TGGGGCGACCTCGGAGCAGAACCCAACCTCCGAGCAGTACCATGCTATATTGGTCACTGT
AGCTCTGTAACATAGTTTGAAGTTGGGTAATGTGATTCCCTCTAGCTTTGTAGCTCTGTT
GTTTTCACTTAAGTATTACTTTAACTATTAGGGCTCTTTTTGGTTCCATATAAATTGTA
AAATAAATTTTTCCAGTTCTGTGAAGAATN, CATCGGTAGTTTGATAGGAATAACATTGA
ATCTGTACCTGCCCCGGCGGCCGCTCGAAGGGCGAATTCCAAGCAC

Sequence 1241

CCCTTTGAGCGGCCGCCCGGGCAGGTGGATCACTTGAGGAGTTACAGACCAGGACTGGTC
AACATGGCGAAGCCCCATCTCTACTAAAAATACAAAAATTAGCTGGGCGGTGGNTGGGCG
TGTGCCCCGGTAATTAANTNCCCNANCTTACCTTTGNGGAAAACTTGAAGGGCCAGGGA
AGAAAAATTNCNGTNTTGGNAAACCCCNCCNTAAGGGTTGGGGAAGGGATTGGCCAGG
GTTGGAAGTTTCNAAAAGGAATNTGGCAACCACAAGGNTGNCCAACCTTCNCCAAAGCC
CCCTTGGGGNCCCAAANNNAAGNTTGGANGTAACCTTTCCCAATTCTTTTNAATNAT
ATTACANNTATNTAGATANACNNTATAANAGNGANNNGANANTGGGNTNACCCCTTNGG
GAGGCNCCGGNCNGNAACCCCCANCCNNNCCTTTAANAGGGGGGGGCCG

Sequence 1242

CCCTTTGAGCGGCCGCCCGGGCAGGTGGATCACTTGAGGAGTTACAGACCAGACTGGTCA
ACATGGCGAAGCCCCATCTNTACTAAAAATCAAAAAATTAGCTGGGCGGTGGTGGCGTGC
CCGTAGTAGTCCAGCTACTTGGGAAGACTGAGGCAGGAGAATCGCTTGAACCCGCGAGG
TGGAGGTTGCAGTGAGTCAAAGATTGCACCACTGCACTCCAGCCTGGGCAAGAATGAGAC
TCCATCTCAAAAAAAAAAAAAAAAAAAGTCTTNGGGCCGCGACACNCTAAGGGCG
AATTCCAACACTGGCGGNCCGTTACTAATGGATCCAGCTCGG

Sequence 1243

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAATTCAGTTTCTGGGGAAAGTGAAGCNTGAA
GGGAATCATANGAAAAATTTGATTTTTGTGTATGGTGAAGAAAAGAGTTCCGATTTTCA
ATCTTTTTGCCACANTGGGATTNTCCAGGCCTTTTTTCCCAACANCCATTGTTATTTT
GGAAAAGGAAGNAACTTACTCNTNTTTCCCCCGCTTTTTTGGTCGGGAANTATCCTTTT
GGGGNCAAAACCTCTTATGNNTTGGGNAAAAGAGNGCCCTTTTCACTTTTTTGNCCCTT
TTTCAACCTCTTNCATTTGGGGGTCTTCCACCCAATTAACCCAAAAGGNTTGAACCC
CCTTNGGAAGNTTNCANCCCTTCCCAATTCCTTATCNCCTTGNGAATTNCCAAAAA
AACNTTGGTTGCTCCNGTTCCGTTTCNTTTAAANTTTTTCTCNCCTGGGGNAAGTGG
GAAACCTGGTTTTGGCNTTCCAACCTTNGNCATTTGNCCATTGGAATACCCCTCAAGN
AAAGNAAAAGNCCCTTNGNTTTGTNNGGCCNTTNGTTGGCCCCAANG

Sequence 1244

CCCTTAGCGTGGTCGCGGCCCGANGTACAAATAANGTCTTCCAAGGGTTCAGAATAGAAA
ATGATNTCTTCCAGCTTGGGGACATTTGGGAAATTGGGATTCTTTGGGGAAATGTACGTA
ATCAGTATATTCTGGGAAAACATANTANAGAATGAATNNATAAATTNCATTGAATTNGGA
ATATGTTGTCCATTCTCCCTGTAACATAATGCTATCAAGATANAGTAGAAATACCACATTT
CAAAANCAGCTGGAGTANACAGGTCTTCATAGGCTAGCTTGGAAACCTAATAGCTATTAA
TAATGAAATTTTAATTATACTCTGGATTCTAAACAATGAACACACANTGATCTTTTTGAC
TT

Sequence 1245

CCCTTAGCGTGGTCGCGGCCGAGGTACAGATGTGTCCTTTCTTATAGTCNGTCAATGCTG
GGAAGTAACAGGCAGATGTGACTTCACTTGANCATTTGGANGAANCAAAAAGGTTGCGC
TTGNTCGNNCCTTAGGGTTAGATGGGCAAGGACCTTGCTTTTTGCNTCCCAATTTCTT

Table 1

AGGGTAGNTGTTNTTCTTTGNGTTGCANGGGATNNGTANACCGGTACATCCTTCTTGNGG
GAACCAAGGGGNNNACNTTATGAANTGNAAAAGGGGANGTTCCTTTGTAGTAAANGGCCT
TGGATTGGTTTTCAAANNGGNAAGNTGGGGTTCACCA
Sequence 1246
CCCTTAGCGTGGTCGCGGCCGAGGATACTTTTTTTTTTTTTTTTTTGNCTAATTACTA
CCTTNTATTCTAATTGTGAACCATGGCCCTGAAAGCTTGATAANCAAGACTTGGCTGAAN
CCAGAAGGGGNAACTAAGTGNNGTTCGGCCAAGNAAAAGGGATTANTTGGGGATGNGAAA
ANTCAANTGGNCTTNTCCCTT
Sequence 1247
CCCTTGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTATTTTTTANATGA
AAAANCTGTAATCTTTATTTGAAACAANTGCNTTCAAAAGAANTNAAAACACTTCAAGG
ACTTCTAGTAAACATAAAAGGTCNAACAACTGTGGCAAAAANTTTTGAATNGTANAT
AAGCTAANATAGGGGTTAACNAGTACCCAGGCCANAATTAAGNGGNATNNCNTCAANT
ACTTCCANTCANNNAAGGG
Sequence 1248
CCCTTTCGAGCGGCCGCCCGGGCAGGTNCTA¹CCCTATGAGGCATAATTATAACAAGCTC
CATCTGCCTACGACAAACAGACCTAAAAATCGCTCATTGCATACTCTTTCAATCAAGCCA
CAATAGGCCCTTNGGNTAGTTAACCAGCCATTCTTCATTCCAAAACCCCNCCCTGNA
AGCATTNNAACTCGGGNNGCCANNTTCAATNTCTTACAATNAAATCCGCCNCCCAACCGG
GGCCTTTTAACAATTNCCCTNCCAATATTACCTTAATTTNCTTGGGCCCTTAGGCCAAT
AANCNTGCAAAAACCTTAACGGNAAACCGGGCAACCTTCCANCCCAAGGNTGCGGCCAAT
TTCNATTAATNCCCTNCTTCTACCAANAGGGGA
Sequence 1249
CCCTTAGCGTGGTCGCGGCCGAGGTACTATATGTTGCTCTCTCAGTGCCAACAATGAAGT
TTTTGCAATTCTAGAACTTGGATTTTTTTTAAACAAAGTCCCAAAACACCAAAAATGT
AAACAAGATANNGAGATTAATATTGNAGTGGNNGTAATTTAATTAAAGTTATTTTGGG
TTAATTTTAACTGAAGTCTTATTGTTGAACTTATTTTCA
Sequence 1250
CTNTACATGCATGCTCCAGCGGCCGCCATGTGATGGATATCTGCANAATCCCCTTAGCG
TGGTCNGCGGCCGANGTACTTAGGTGCCTACAACATAAACAGCA
Sequence 1251
CCTGTAGATGCATGCTCGAGCGGCCNGCCAGTGTGATGGATATCTGCAAGAATTCGCCCT
TCGAGCGGCCGCCCGGGCAGGTACGCGGGCAACAGTTAAATCAACAAAACCTGCTCGCCAG
AACACTACGAGCCACAGCTTAAACTCAAAGGACCTGGCGGGTCTTCATATCCCTCTAG
AGGAGCCTGTTCTGTAATCAATAAACCCCGATCAACCTCACCACTCTTGCTCAGCCTAT
ATACCGCCATCTTCAGCAAACCTGATGAAGGCTACAAAGTAAGCGCAAGTACCTNGGCC
GCGACCACGCTAAGGG
Sequence 1252
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTATTATTATTCAAATTTAAAACTTCTTC
TTTTTAAGAGATAGGGTATCACTATGTTGCCAGGCTGATCTTGAACCTTTGGCCTCAG
ATGATCCTCCTGGGTCAAGTGATTCTTCTGCCTCAGCCTCCCTCTTATTGCTTTACAA
GTCCTGCTTCAGGGTTACCTTCCCTGACCACTGCTGCCTCCCTCCAGCATTGCCAGGG
ACTGTCATTGCCCTTAGTTTATTTTTCTGTTTTGTTTTTTTTGTCGTTTTGTTTTT
TTTGAGACAGCGTTCCTAGTCTGTGCCAAGGCTGNGAGTTGCAGTTGGCCGCAATC
Sequence 1253
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTACTT
TANTAGAGATGGGGTTTTACCATGTTGGCCAGGCTGGTCTTGAACCTNTGACCTCAGGTG
ATCCACACGCTTCANCTCCCAAAGTGTGGGATTACAGGCGTGAGCCACCACGCCAGC
CTAAATATTTNTTATAGCAATGCAAGGATGGCCTAACACACTGCCTAAATCAAATTC
TATTCATTCAAGGGTATTTCAATTACCTGACTAGCTTTTTTGGGTGCATNTGGAACATA
ATGTA
Sequence 1254
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGTCTTTTATCTTGGGATAAAATGGCTAGAT
GAGTATGGACAGGGAGGCAGGGCAGATACAGTCTTGTCTTGGTTTTAAGAGTTCTTCT
GAACCACAATCAACTTCTCCAAACCCACCTTTGTCTTCTACCACAATAGGGGTCAGAT
CTATTGCTGACTTTTCTCCACCTTCTCTACATCAGCAGCACCTAGGGGAAGAAATGTTA

Table 1

TTGAGACTATACCTAAAGGAAGAACATTCTCCTCTGTTGCACACTATTATCCAATTGGAT
AGACCCACATCTAAATGTCTGCAATTACAGTAATGTCTCAGCTGGGCATTGGTGGCTCATGC
CTGTAATCCCANC
Sequence 1255
GAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTANAATAACAAAAATTTTACTNAAACATAAANATTIN
CAGANGTTTCCNNACAANCCNTNCAAAATGGTCACAANCTTTTTTNA
Sequence 1256
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTT
TTCTTTTTTAATGAGCTCACCTTTAACACAAAAAAGCAGGGGTGATGTATTTAAAAA
AGGAAGTGGAATAAAAAAATCTCAAAGCTATTTGAGTTCTCGTCTGTCCCTANCANTCT
TTCTCANCTCACTTGGCTCTCTANATCCACTGTGGTTGGCAGTNTGACCAGAATCATGG
AATTTGCTANAACGNGGAAGCTTNTACTCCTGCAAGTAAGCANANATCGCACTGCCTCA
ATAACTTGGTTATTTGAGCCNCGTNTTTTGCAAAACTACTTTTTCTANTTTTTCAAN
AATTTACTTTCAATNGTTTTTAAAAAA
Sequence 1257
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTT
TCAAACCTCAGTTTGAAAATGAGAGGAAAAACAAAAATAAATGATTTACATAATCAAAGGA
TTAACTGATACAGACTTTTATTTCTAAATGCTCACAAGCACAGAAACCAACAAGAAATCAG
ATCTTGAACGAATTTATAATGATTTCTCCAGGAAGCACCGNGGCAGCCACATAAGCCGCT
NTTCACACCTGGCTGCNTTCTGCCAAGTTAGTCTCAAAGAGAAAAACAAGGGAGGNAA
AAGACCNAAAAAACAACAAA
Sequence 1258
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTGCTGGTTAATATAACTAAGATTTTGCCTTT
ATTGGGTTAGGTATCTTTTTTATTTTAGCACCTGATAGCTGTCTTTCTACTGAGTAA
GAATTATAACTTTTAGATGTACAGAAAAATTAGAGTATTTATTGTCAA
Sequence 1259
CCCTTCGAGCGGCCGCCGCGGCGGAGGTACTTCAACAATCCAAAAGTTTTGACTGAAAT
AAGCAAACCTCACTAATGATTATGAAGTGAACATAACCAACAGGCTGTTGGAGAAAAAC
ATACCTCTTCTTCAAGTAAGTTTGCCATGCCATACCATATCTGTGAGTGGTATTCTGGAA
TGGCCAAATGGCCCTGGTAGGACTATGGGTCCTGAAGTCGTGCTGCCTGGCTCTGGCCAC
ATCCCTGTGGTGCTTTTCCATCCTGATCTACAGATTTAGAACTGCAGGGAGTTCCTTT
TAGTCTGGCAATCTGAACCTGATTTTTTG
Sequence 1260
CCCTTCGAGCGGCCGCCGCGGCGGAGGTACTGGTGGGATTGTTAGACCATCCCAAAAAGGA
AGTGCACCTTGGAGTCTGTGGAGCTCTAAGAATATCTTTTGGACGTGACCAGGATAA
CAAGATTGCCGTAAAAAAGTGTGATGGTGTGCCTGCCCTTGTGCGATTGCTTCGAAAGGC
TCGTGATATGGACCTTACTGAAGTTATTACCGGTGAGTTCTAGGCCTAAGGAAAAATTGCT
AAGTCAGTGTACTCTCTAGTGATGTTGAGAACTAGAGGGATTTCCAGACCTTTTACTTT
TTGATGAAAGGTTGTGAAGTGGTGGCTGTGGGTCAAATCCATCTCACAGNATTTGTTTT
TGGATC
Sequence 1261
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTCTTTTGCC
TCCTCTGACTATATTTCAAATAGTCTGTCTTCAAGGTCAGNAATTCTTTCTTCTGGCA
TGATCAACTCTGCTNTTAAAGGACTCTGATGCATTCTTCAGTATGTGAAGTCTTTTTTC
AGCTCCANAATTTCTGCTTCAATCTTTTAAATCAATCTCTGTAAATGTATNTGGTAA
ATTCTGAATTCCTTCTTTGTTATCTTGAATTTCTCTGGAGTTTCTCACTTATTTG
AATCTGTCTTGAAAGGTCACAATCCTGTTTTCTTAAGGGATTGGGGCCCTGGGTAAC
TTATTTAAAA
Sequence 1262
CCCTTAGCGTGGTCGCGGCCGAGGTACTCCATCAAGCCTGGTTCCTAGGATGCTGGAC
TTCTAGCTTAGTGAGAATGCAGTATACTTTTGAAGAACTTCGTGCAGGAATCCCTCAAAT
GCTGTAAGTGAAGTGGTCAAGTGAAGTTCAAACGACTTTTCTTGAAGGAGTATTTAA
TCGGACAAGGGAAGTCTTTTTCTTTGGGCAATGGCCAACAGGACTGAGAAGCCAGAGAG
CTTGCACCTGAGCCATCTCAGCCGTGAGAGTAACAGTCTTAGGAAAATAGATGGGGGCTG
GGGGTAAGGAAAT

Table 1

Sequence 1263

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTTTTTTTTTTTTTTTTTTTAGGGGTT
TTCTTTGTAGAGACAGGGTCTCACTGTATTGCGCCAGGCTGGTCTTGAATCATGGGCTC
AAGTGATCCTCCTGCCCTGGGCTCATGAAGTGCTGGGATTACAGGTGTGAGTCACCATGA
CTGACCTATATTTAATTTTTAAAGATTAGACTGGTGTAGCTGTAAATAGTTTGAAATA
CCTCTCTGATAGGTGCTAGCTTATCGTTACTCTTAGTGCTTCTTGCAATTGCAT

Sequence 1264

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTGTGTTTAAGAGAAATTCCTAAACTGGAT
ATATGTGGCAGGCTGAAAGCACTGTGAGTTGAAGTCAAGGGGAGAGGTCCAGGCCGAGTG
GCTCATGCCTGTAATCCAGCGCTTTGGGAGGCCAGCGGGAGGGTTGCTTGAGGCCAG
AAGTTTGAGACCAACTTGGGCAACATAGCAAGACCTCGTCTCTACAAAAGATCNNNAANT
NAATANTAATNTAAATTAAGTTCCTTTGGGCCGNNACCACNCTAAAGGGCGNAANTTTC
CAGCCACCACTGGCCGGC

Sequence 1265

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTTATTGTTAAAGTGAGTCAGATAAATCTTC
AATTCCTGGCTATTGGGCAATTGAATCATCATGGACTGTATAATGCAATCAGATTATTT
TGTTCTAGACATCCTTGAATTACACCAAAGAACATGAAATTTAGTTGTGGTTAAATTAT
TTATTTATTTTATGCATTCAATTTATTTCCCTTAAGGTCTGGATGAGACTTCTTTGGGGA
GCCTCTAAAAAATTTTCACTGGGGGCCACGTGGGGTCATTAGAAGCCAGAAGCTCTN
CTCCAGGGCTCCTTCCCAAGTGCCTANAAGGGTGCTTNTAGGGAAACATTAGGATTCCCA
GCCAGGGGGCT

Sequence 1266

CCCTTAGCGGCCGCCCGGGCAGGTACTCAACACTGATTTGAGAAGAAAAGTGATTTGC
TTACCTGTGATTTTGAGACCTATATAGTGAAGGTTTGTGCCACTTTTAGTTTCCTCAA
ACATGCAGAAGTAATGAGGTTTGACAGAGACATGAGACTATAAGATGCTGTCATTGCTG
CCAACCATGGAAAGATGTTAAGATGTCCAGCTGCCATAAAATCATATTTTCAAAGTGT
GAGACACGAAGAATATCTTCTTATTGGAATATGCTGAAGGATAGGAATAAAGAAA
AGGATTNCAGTAAAAATGGGAGNC

Sequence 1267

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATTTTTTTTTNTTTTTTGGNTTCTGTAA
ACTNTNATTTTACACTTATGGGCCACTTGCCAACTCAGGGGNCCTTGGCTTCTTGACTCA
TTTTCTACAAAGGTTTACTTTGGTTGTAAGATGTAGTTAANAGGGGTANGAANAATTT
NNGGAATNTATTTTNCCTTGGCTTNGGTNAAAAACCTCAACAAGTTTACCTTTNCCCAAG
TTCCCAATTAATATTAANAANTTNGNCAACCGTTTTGTTACCNTCNCCTTTTCNAGG
AAAAAATTCCTTATTTGGNACCTTNTTCTTGGNAAATTTTTNANTAAAAANAANTG
GGGCCATTTTTNTTTTT

Sequence 1268

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGGCTTTGCAGATGTGATTAAGCAAA
GGACCCAGATGGGGAGATTATTTGAATTACCTAGGTGGGACTCCACGTATCACAAGG
GTCAGAATCCAAAGAGATGTGAGAATGAAAGCACAAGTGAGAGCAGTGGGATAGCCAAA
TTTAAAGAGGGTTGTGAGCCAGAGAATATAGGCCGCTNTAGAAGCTGCAGAAGGCCGGG
GTGGACAGAGTCTCCCTGCGAACCTCCAGAAGCAGCACAACCCTGCCACTCACGGTAGA
CTCTCGATCTCCGGGCTGTAGAAATAATACATCTGTGCTATTTTAAG

Sequence 1269

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAAGGTGATGCTAATACTTTAAATGTT
TAAGANATAAGATTTAAAAGCATTTGTAAATTGTATACTTGCANANGTCCGTNCTACAT
TGGCATTTTGAACAAGGNACATTAATTGGTT

Sequence 1270

CCCTTAGCGTGGTCGCGGCCGAGGTACTGCAAGCAACAGTTACTGCGACGTGAGCAGCAA
CAGAAGTATNCTCTCCTGAAATTATTANGCAGTACTTGNATCAACCACTCCGCCGTTACC
CATACCAAAGCCGTCGCTTGGNACCG

Sequence 1271

CCCTTAGCGTGGTCGCGGCCGAGGTACAATTTTAGTCAAGGGATTGTTTGATACTCTTT
AAGTTCAGTGCCAGGCCTACCACTTATCTGTCCCAGGAGGAGAGTTCCTTGTAATGAG
AGGTTTTTAAGACGTCTTTGTTCTGGGATGAATCATAGGGAATGACTGCCTTTGGAGCT
CAGGATATTAAGTGAAGTGTCAAATATTNCCAGGATCAATTCGACAATGCCATGTGT

Table 1

ACCTGCCCGGGCGGTGCGNTCNAAGGGCNGAATTTCCANCACACTGNCGAGNCGTTACC
TANTTGGATTCCCAGATCTTCTGNTTCCAAAANTCTTTGGCGGTTA
Sequence 1272
CCCTTAGCGTGGTCCGCGCCGAGGTACTCAATGTCACATTNNCATAGGAAAGGTTATATA
TACACTATACACTTCAACCTTGAAATGTGGACCCAAAAACATTCTATTTTCAGTAATC
NATTGAATTTNGGTGAGGGGTCCNACACCCTCAAATCCTAANTTTATCACAANAAAAAGCC
CNTNCTTGGCTGCCAAGCGCTGGCNGATGAACCTTGTNTTGTCTGNANCTCTTNATGANTT
GGATNCCANAGTNTCNTGATGATCCTNTTCAATGTTTANGAGCATNTGACCNGNCATGNT
GTAGNGGANTGACTTTC
Sequence 1273
CCCTTTGAGCGCGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTGTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTATAAAAAACNTTNNAAATTAAAAA
ACTCAAAAAAANAAAAATGAGCATTTTAAAAAANGGAAANANTTNNAAANNNNNNNNNG
GNAAAAAAANNGNAAAAANNAANTNNNGNATTGNTTTTTTGGCAANTNANC
AANATCNTCCCCCTGAAAAAAGTTTTTTTTT
Sequence 1274
CCCTTAGCGTGGTCCGCGCCGAGGTACTACAAACAACAGAAATTTATTGTCTCTCAGTTC
TGGAGGCTAGAAGTCCAGAATAAGGTATTAGTAGGTTTGGTTCTTTCTGAGGGCTGTGA
AGCAGAATCTGTTCCATCCCTCTCTTCTTGTCTTCATCTGTTCTATGTCTGTCTTTGTTT
AAATTTCCCTTTATATAAGGATAGCAATCATATTGGATTAGGCCAGTCCTAATGACCA
GATCTTAACATTTGCAAAGGCCCTATTCTCACTAAGGTCGTATTTACAGGTATAAAGGG
TGTAGACTTTAACATCTTTTGGGGGAAGACACAGTTCATCCGTAACAAGATGTTAAGT
CCTTCTCTCTCTAAA
Sequence 1275
ATAGGGGCCGAAATTGGGGGCCCTCTAAGAATGCCATGGCTTCCGAGGCCGGGCCCG
CCAAGTGGTGGAATGGGGATATTCTTGCCAAGAAATTC
Sequence 1276
CCCTTTGAGCGCGCCGCCCGGGCAGGTACTATAAAGGTTGAGTAAAAACAGGAAAGCGT
GCTATAAGTTCAAATCTGTTGTATTACCCTAAATTAAGATAAACCAACCTGAATTATAGT
AGATTTCTCAATAGATGAGGAAGTAAAAATACTATGTAAATATCTTCCAAATGCTTT
TTATACTTTTTTATTGTAATTTGGTCTATCTAAATGTTCTGTTAGCTTAACCTAATGG
GCGTTATTGGATTATATGACTAACGTTTCCCTCAGTATTGTAATGCTTGAAATATTGAA
AGAAAAATGTTGTTTTTAGTTGAACTGGTATATATAATTCAGTGCTTGGCAGGTTA
GTATTTTTATGCATTTT
Sequence 1277
GTACCAACACAATTGTTAATTTCTCACAGGCTNAAGGCATTCTGGGAAGCTATACAGGG
GACAGGAAGCATTTTTTGGGAGCCCTAAGGGGAGCCAGTTTGGGAAGAGACAGCATTTCTCT
GGCTAGGACAGGTGGNGNGGTGGCCGGTTNAGGNTCTNCAAGGGACCCTNTGCAGAT
GCCGGGGCCCTGTTATTCTGAGCAC
Sequence 1278
CCCTTAGCGTGGTCCGCGCCGAGGTACTAAACTAAACTGAGCAGTTTAAACATTTCAT
TTAAAGGGATATCTAATGTGTTTATTATTAACATAAATAATGTTTTATGAAAAATGTAAC
CTTAGTTTTCCAAAACAAAAATGTTAGGGCAAGAGTAACATTATTTACATTATTGCAT
CTCAGTAAAAATAAATGGCAACAAATTTCTATATCTGCTTCTGCAGTTAATCTGTTCA
TTTTGTTTTGTTGAAGTATATGAAGGAAATCTGTCTCACACAGTTGTGTAGTGGAAAA
AGGGGGACTATTGTAACAGGGCTGTGCACATAATTGTGGATGATTTCTTTGATACAACA
ACAAACTTGGTGGAT
Sequence 1279
CCCTTCGAGCGCGCCGCCCGGGCAGGTACAATGTGATTTATCAATTAATTAATTTGAATT
CCATGGAATGAAATATAAGTCAACAAGTATGACAGTTTCGCTTTGTTTATTATGGAAGAA
TCATTAATAATTTGATAATTAATGGTCTGAATGGTTAGCCATGTTCTCCGCAATTTAAA
TAAATAGTATAAACATAAATGAAATATTAAGTAATTTCAACGTGATAGAGACCGCTTA
TTTTAGTTTCAGGTAGAGTTCCAACCTAATGGTAATTAAGATTCCAGATCCGAAAGATGT
CATGTGAATATTGCTCTGAAAAACCAAAATTAAGCTTTCTTAAAG
Sequence 1280
CCCTTAGCGTGGTCCGCGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTNGAAGGCA

Table 1

ATTTAATAAGATTTGAGCATAGATATTAACTTAGCATGGACAGAGAACTTATTTNTTG
GGGGACTGGCATAAGTGAAAGAACAGAATCAGTNTGACCAGAGAGAGCATAAAAACTTT
Sequence 1281

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTCTGACTTTCTAACAAATTACCATAAAGGA
AGAATATTTTTCGTCTACTATTGTTAGAACACCTTAGAACCATCAAAAATATAATTACAT
GGCTAATAGAAAAAAGAGCAGTTTTAAATATGTTTTATGTAACCTATTTTCATTGTT
TTTCATTTTGTGTTGCCGAATAGTAGTTGTTCTAAGTAAATACAGGTCTCAATTTCACT
ATGAATAAAAAAAAAAAAAANGAAAAAAAAAAAAAGTACCTTGGCCGCCGACCACGCTAA
GGG

Sequence 1282

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTTTCTTATTTTCTTAATCAATACAGCTAAAG
GTTTGTCAATATTGTTGATCTTTTTAAAGAACTAAAATTTGTTTTGTTGATTTCTTTA
TTTTTTTTTCTGTTTTATTTATCACCACCTTATTTTTAGTATTTCTTCTCTCTGGTA
GCTTTGGGTTTAGTTTGTCTTAAGTTCCTTAGGTGTAAAGTTACGCTGTTGAAATGAGA
TCTTCTTATTTAATGTATGCATTTATAGCTCTAAATTTTCTCTTAGCACTGGTTTCACTG
CATGCTCTAAGTTTTGATA

Sequence 1283

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTA
ATTAAAAANCNGGANTTGGTNGGTTNCCCAAGCTNGNNTTGAANNCTGGGNTTAAACAA
NNANNCTNGTTTGGCCNNCCAAANNCTNGGATTANNNGNNTGAACCANCNNACCCANNT
TTTAAAAANCNNAATNTTTTNNGGNAANNTNANANANCNNNCCCAAGGANTTAAANGGNN
GGGAAAAACNTGGANNTTGGNTTTTTTTTT

Sequence 1284

CCCTTAGCGTGGTCGCGGCCGAGGTACTCACAAATAACAAGACAAATTTGACCTGTTCAA
TAAATAGAAATGAAGTGGCTAAAAATGTTTAAATGGAAGTGGAACAGTCGTC/TCTTT
GTACTTGGTCTCTACCTCAGATAATTCTTCTTTGAGCTTTGAGTAGCTTCTCCTTTTTTC
ACTTAGTTCACATGTATTCTATGCAGTGAGGTTTCAATGCAGACAATCTTGACTGAAG
CTGTTGACAATCTAGGTCTTTTGATGAAGGGTGCCTGAATATTCTTTTTACTCACAGA
TTCTTCATTATGTTTCTCCT

Sequence 1285

CCCTTANNTTGGTCGCGGCCCGAGGTACTTTTTAATCTTATTATTAACTAACCCCTGTG
GTGGTGTGGCTACATTCTTTGAGTTTAGAAAACGAGATAAAGAATTGCTCATATCTTCCC
AAATTGTGTAGTATAAAAAGAAATGCTGTCTGGTTGTTTTTGTAGAATATGGAAGTCCC
TGCAGTAAGTAGGCAACATGCTACCCTTCTATTCAACACAGCACTAGAACAAGGCAAGTG
GGACCTTTGTCGACACATGATTTCGATTTCTTAAAGTCATTGGCTCTGGAGAATCTGAGAC
ACCTNCATCCACACCCACAGCTCANGTTAAGCTGCAAAAGTTACACATCTTCTCTAGGCC
ATACACCCACGTAGCATCTTCTCTAATGGTACCTGCCGGGGCGGCCGCTCGAAAGG

Sequence 1286

CCCTTTCGAGCGGCCGCCCGGGCAGGTACACAGGATGTGATCAACAAAGTTCTATTTTAC
AGGAGTATGATCCTGTGATACCTTGCCGTAGGTTATGTAACATGATTGGAGCGCAACCA
GCTGTTCTCTTGACAGATCGAGAGTGAGGGGTATTTTGTGACATTACACAGCATCAGGA
GCCTGGTGCCTCATCAGGTGTAAGTTCTTATAACCACTCTTGGCAAATTTATTAAAGACA
GGAACACAGTCAATCTGTAATCATAAGTAGCTCTACGTTTACTTGAATTCACATCCCT
AACCCATCTGTCCCTGGCAGAAAGAAGGAAAGATGACATGCATGGACAGTGAACAGAAAG
GGATGAAAGCCAGGATTCTGGGATGAACAGACAGTGGCAATTAGGATGTGAAGACAGGT
CACAACTTACTATGTCTAAAAACGACCAGAGCAGAGAGCCAGAAGAGAATAAGCCTG
AAGTCACCTTCCACTNAAAAAGCAGCCAACTCCCTCAAAGGAGTAACTTTTAAACCTG
GATCTAACCTGGAANGGGCTAAAAANTGGCTTGGTTCTGAGTTTTTTTT

Sequence 1287

CCCTTAGCGTGGTCGCGGCCGAGGTACATTCCAGTTCTTTATCTGAATACAAGCGTTTTG
CTTTTATTTCCAGTTTCTTGACCAGAACAAATAAATACATAAGACATCGTTTCTATATG
GTCATATACTATATAGAATAAAGAATTGTTATGTAAATTATTAAATGAGTATACAGACCT
TTACATAAAAACTAAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT

Sequence 1288

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTGTGCAGACCGCTACCTCATCCTGTGACTT
AGAATGCCTAACCTCCTGGGAATACAGACCAGTAGGTCTCAGCCTTATTTTACCCAGCCC

Table I

TTGCTACATTCAAGAAGGAATCACTCTGGTTCTAATGCCTCCGACAGAATGGTCAGATTC
TCAGACTCTAAAGCAAAGAAGACTATGTTTCAGTGACAGCAAGACTGTTGAAGAAAAATAA
ACTCGAATGGCCTTGAGGAGCTATTATCAATAAAAAACAGTATAACTTATAATTATCTGTT
GTGTTACAATGAAGTATATCATCACTGC
Sequence 1289
CCCTTTGAGCGGCCGCCCGGGCAGGTACTAAGGTTGTTAGCCCTCTGCTGGAAGAGAGT
GTATTAGTCCATTTTCACACTGCTGATAAAGACATACCCGAGACTGGGTAATTGAGAAAA
AGAGGTTTAATGGACTCATAGTTCCATGTGGCTGGGGAGGCCTCACAATCATGGTGGAAG
GTGAAAGGCACATCTTACATGTTGGCAGGCAAGAGAGAAATGAGAGCCAAGCAAAGGGG
AAACCCCTTATGAAATCATCAGATCTCGTTAGACTTATCCACTACCACAAGAAGAGTGTG
GGGGAAGCACCTCCATGATTCA
Sequence 1290
CCCTTTGAGCGGCCGCCCGGGCAGGTACATAGGCTCTGCCTATCTCTGTGGCATGGATCC
TACATCCACAACACACATTATTTATTTATTTATTTTGGCAAATCCCAATCCCCAGAA
ATGGTCTCACCTCATTGACATATGCAGGAAGAGCCAAGGGGGAAACAGCAACTTGGAAA
TGACTATGACAGACTAACACAAAGGACAAGAAATGGCTCTCATGGGATGTAGGTGGAAGG
AGAGGCCTCTGGCATTGGCAGCTCCCTACCAGAGGTGTCCTGCCCTCTGTTCTCTTGGG
TAAGGGAGCCACTGGGCAGGAGTAGGCA
Sequence 1291
CCCTTTGAGCGGCCGCCCGGGCAGGTACATAAGCTCTGCCTATCTNTGNGGNATGGATCC
TACATCCACAACACACATTNTTTATTTATTTATTTTNTGCAAATCCCAATCCCCAAAN
ATGGGCCTCACCTCATTGACATATNC
Sequence 1292
CCCTTAGCGTGGTCGCGGCCGAGGTACATTTTTTTCCTCTTTTTTTTTTTTTTTTTTA
ATTCTGAGATTTCCCAAGCTGTGGATTCTTCTACTCCTTAANAAAAAACTTTGGTTT
TATTTAACATCTACACCTTTTNGTCAGTTGTGTTAGCGTGTTCACCCCATTTTATTA
TACTCTTAAAAGATGTAATTGTTGTCATTTTGAACAGTTAAACATNTTGTNGTATAAAA
AGAACCCCAATGGTTTTAGTTATNGCTTTGTAAATTTTTATTTTANTTTTACCTAAAN
AACTTTCACTAATCAAATAAGGGAAAGAACTGTCTTT
Sequence 1293
CCCTTAGCGTGGTCGCGGCCGAGGTACTACCTGTTTAAAGGACATACCAGAAAAAAGTAT
TGATTTTTATCCTATGCTAAACAGTGCTGTGATAACTTTTGTATCACTTGGAGAATGCTC
CTGAAATTATGCAACACTACTAGATAACCCCTGGATCAAAGAGGAAATCAAAGGGAAAT
TTCACACTGTATTGTAAGAGAGGAGACTTTTATGCCAAAATACAGTAAGTCTTTAGTC
AGATAAAATTAATAATCTTAAATTCCATTGTTAAAGAAGAAAGACAATTAAGAAATC
TGACACTAATCAGAAGAAATTAGGAAAACGAATAAGTAAAAGAATCTGAAAAGGAGAAAT
AAAA
Sequence 1294
CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGGGAGAGTGAGGTGGGAGAAGAAGAGTGTC
TGGTTTTGTGTGCTNACATGTCTTCTGGCATGAGAATGTTTAAATTTGGAANTAGTGGGN
CNCTCAGAGCCNTCCTACAAAGGCAGTGGCAAAGCTTCNTTACCGTGACATTTGTTNAGT
ANTAACTTTGCCCTNNGGCACGCGNCNTCTGNAAANTGNTTTGTTTTGGGCCTATTTCT
TGCTGAGNTNCCCTTTANNGGNTTGTNCCTTCGNNTTTTTCATTCNANCTAATTTNGCC
TCCCCATATNGAACANATTGGTAATTTCAACNATGGGNGNGNCCAACTTTGGCTTTTT
CTTTTTTNGGACTATGNCCCCCTAANTAACNACCCTTGGGATNCAANTTNGTNAANTT
TTCTTTTCTTTTCTNNNGGNGGGGNGCCTTNCCTTNNCAANNNGGAAAACCCCCAAAA
ATTTNTTTTTNGCCNANCCNTCCAANCAATTTTTT
Sequence 1295
CCCTTCGAGCGGCCGCCCGGGCAGGTACNGCGGGCTCTCTCCATGGGTCTGTGTTCCAGA
AAGCTATGACTCTTTAATGCATCTCTAGTTTTTCTTATTTCTTTATTCTTAGTATC
ACAGTCCATGATATCCACTGTCTTGGGGCGCCCAATTCATTGTGCAAAAAGCATTTAAA
TCAAAATACCCCTATTTGTTATNTTTTTAAAAAGTAAAGTGGGGGATG
Sequence 1296
CCCTTCGAGCGGCCGCCCGGGCANGTACAATGCACATGCCGAANGACCTTANTNTTGG
TGTGATGAAATGTTTTCTATGCCTGGAATAAATGCCTTNCCTTTGGGNTGTAATATCTTAA
ATACGTATTGCTCCTCNATCTGTGAGTTATTTAATTTTTTCTCTGAAGNAGCTNTGATT

Table 1

TCTGGGCTTTCTAGTGTGATCATCTA

Sequence 1297

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAGGTGATGCTAATACTTTAAATGTT
TAAGATATAGCATTTAAAAAGCATTGTAAATTGTATACTGCAGTGCNGTCTACATGGCA

Sequence 1298

CCCTTCGGCCGCCCGGGCAGGTACGCGGGCTTCCTACTTCCACCAACCCCTCTTNGCAGA
GACTGCTCCATTCCATTTAAAGGNGAAGGTTCAACTGGANACCTNCAAAGTTGGCTGGGC
CT

Sequence 1299

CCCTTAGCGTGGTCGCGGCCGAGGTACTAAACGTGATGAAAAATATGCCAGACCTGGCCG
GGCCTGGTGGCTCAACGCCTGTAATCCCTGCACCTTTGGGAGGCCGAGGCAGGTGGATCAC
GAGATCAGGAGATTGAGACCATCCCGGCTAACACAGTGAAACCCGTGTCTCTACTAAAAAT
ACAGAAAAANAANAAAAAAGAAAAANGGTCCTTTGTNTACTGCAGTTGTCNTNTAC
ATGGCATTGGACAGGACATAATTGTAAACATAAAAAAGTGCAATTGGTTACACTTACATN
TGATAGTGAATTGGCAAACGTGACCAATTTTTT

Sequence 1300

CCCTTCGAGCGGCCGCCCGGGCAGGTACATACAAAAAATCATTAACTCATATATTTCAA
GAGTAGGAAATGGGAACTGGTGTTAAACTCTTATAACATATGCACTGNCTTAAGGGAC
AGTGTTTTAAAAACGCATACCTCGGCCGGCGCGGTNGGCTTCATGCCTGTAATCC

Sequence 1301

CCCTTTGAGCGGCCGCCCGGGCAGGTACATTTAAAGGTGATGCTAATACTTTAAATG
TNTAAGATATAGATTTAAAAAGCATTNGNAAATTGTATACTGCAGTGCCTCTACATGGC
ATTGGACAGGACATAA

Sequence 1302

CCCTTGAGCGGCCGCCCGGGCAGGTAGGGCGCGCAGCAGCACTCGCCAAAGTCGTCGGA
G
ATGCGGCAGGCAAGGCACAGAGGAGCAAAAGTGCCGCACAGACAGACAGGCATGTCGTTG
CAGCAGTCCGTGAGACCTGTGTGCCAGTCACTGAGCTGGGTCTGGTAGCAGCTGGTGGTG
GCGCACTGGGGCTGACTGGTCACAGGGTAGGACATAGCTTTGCCTTTCACGTTGTCGTGC
ATCTCAAACCTGCATCTTGCTGGCCCTGAGGAGGTGGCGTTGGGGACGGCAGAAGTGCCCT
GTGGCAACAGTGGCAGNAGTCTTGTCGAAGGGGAC

Sequence 1303

CCCTTAGCGTGGTCGCGGCCGAGGTACTCAAAAAACAAAACATGGAGTATGTCCTGTG
GTAGAAAAATTTGAGCAACAAAAATAAAGTAGTATAGGATTATGACCCCAAGTATAA
AATAACCATCTATGAGTCCATACATATAAATAAATGATTGAATAAATATATAACGGA
GAAGAAAAAAGACTATCCATAGCAGAAGAATTCCAAATAATTTATAGACAGCTCCCT
TTAAGAAAAAGACCTACTGAGTGTGGTCTACAATTAATGCTCGCTACCTGCCCGGGCG
GCCGCTCGAAAGGGCCGAATTCAGCACACTGGCG

Sequence 1304

CCCTTAGCGTGGTCGCGGCCGAGGTACTGTGATTAAGCCAACTTCAGCAAAAAAGGAAG
TGCTGCATTGNAGCAGTATTGAAAGTTATGTAGGTGGATTTTAAAAAATATTACAGCC
TAAATTTCTTAGCAAAAGTCAAATGAGTAACAACACACAGTTTGAAACATTTGNAGAG
GAGAAAACAAATATCTGACAAGAGTACCTGCCCGGGCGGCCGCTCNAAGGGCGAAT

Sequence 1305

CCCTTTGAGCGGCCGCCCGGGCAGGTACACTGAAAAGTGGACATTATAACATTAATTTT
ATTAGCTCTCTGGGAGTGAGCTACATGATGTTGTGCACTGAAAATTACCCAAATGTTCTC
GCCTTCTCTTCTGGATGAGCTTCAGAAGGAGTTCATTACTACTTATAACATGATGAAG
ACAAATACTGCTGTCAGACCATACTGTTTCATTGAATTTGATAACTTCATTACAGAGGACC
AAGCAGCGATATAATAATCCAGGTCTCTTCAACAAAGATAAATCTTCTGACATGCAG
ACGGAAATCAAGCTGAGGCCTCCTTATCAAATTTCCATGTGCGAACTGGGGTCAGCCAAT
GGAGTCACATCAGCATTTTCTGTTGACTGTAAAGGTGCTGGTAAGATTTCTTGCTCAC
CAGCGACTGGAACCAGCAACTCTGTCAGGGATTGNAGGATTTATCCTTAATCTTTATGT
GGAGCTCTGAAATTTAATTCGAGGCTTTCATGCCTATANAAAGGCTTCTGCCAANTGATG
NGAATGATTTTAATTACCTCATTGGCATTTTTCTTGGGAACAAGCAGCCCTGGCCTTT
ACCCAGGGTANGTTTTCTTTCATTTTTNAAAGAAACACCTTACCATTATTGNTTNCCTC

Table 1

AAGGGATTAAGTCTAAACAATTGGGCCTTTTTAAATAANTTATTTAAAAACCCCCAAA
AAA

Sequence 1306

CCCTTAGCGTGGTCGCGGCCGAGGTACACCAGTGGAGGACACGAATTCTATACCTGTAGG
ACAGTGCATGGAGAAAAACCTAATGCCGGCTGTCCCTCAGAAAGCCTGGGGCCAGTGCCT
GGGCTGTCACCTCATCCATGCTATCAGTCTACTTTCCCTCTTAGCCACAGAAAGCCCTGA
AGAAAGTGGCATAAAAAATGACCTGGCTGGGCACAGTGGCTCATGCCCATATCCCGGCAC
TTTGGGAGGCCGAGGTGGGCAGATCACCTGAGGTGAGGAGTTCAAGACCAGTCTGGCCAA
CATGATGAAACCCGGTCTCTACTAAAAATACAAAAATTAGCCGGGCATGATGGTGGGCGC
CTGTAACCCAGCTACTCANGAAAAGTGAGGCANGANAATCTTCTTGAACCCAGGANACG
GAAGTTTGCAANTGAGCTGAGATCGCATCATTGGACTTCCAACCTTCAAGCGAGAACCAG
CGGTTNGAATTTCCCTTTTGTATGAACTGGTCTTTTTAATGTTCCCTTAACCCATTCTTC
TTTTCAAATTTGGTTTCTATTGGGTTTTTTTTTTCTTTTTTGANGTTGGGACTTTTTT
AATCTACCTTGG

Sequence 1307

CCCTTAGCGTGGTCGCGGCCGAGGTACCC ITGTTACAAATATACCATCATCATCAGGTCT
GAATGGGTTTCTCTACCCCCGACACCACCTGATATGCTAAATCCAAGTTCTGGATCCTT
TTCAACCCCTCACTCGAATCTCTTGTGTTGCCAGTTCATGGCCTTGTCTAGGAGAACAATG
GGGCTGTGTATATGGAGACTGGTGGGCCACTTTCAGCATCAAGTAATCAATTAGTTGTTT
TCTAGAGGGATGCCTTGCCACAGATGCCTGAGGGGGGTGATGATTTGACTATAATTTGC
CTGAGGCCCTGAGAGGCTGGCCCATCTGTCCATTACTCAAAGGCATCTAAGAAAAACATGA
AGTATCTTAAATGACCAATAATAATGTCTTATTTCAAATATTTGGATTTCTTCTTGGAG
CATTACAAAAGCACTAGAGTTTTCACATTCTAATTAAGTCAAACAATACCATGCCACTTA
CTATTTTTCTATAATTTTAAACCTTAAAGAAATAAGCTATTAATGGCTTAATTCTAAAG
TTCCTGAGTGCTTGGTGGTACACTCACTTTTTTAAGCTT

Sequence 1308

TTTTTCGCCCTTNTNTGNCGCGGCCGAGGTACTTTGTGNTTTTTTTTTTTTTTTTTTG
GGNCACAGGANTCCTGACTGGGAAAACCTGAGCTACAAAAGCAAGATTTTACTGAAATT
AATTATTTACAGACAGACTGGANATCACAGGTCACTGAAAAGTCATTTCACTGAACAGA
GCTAAGGATCTAGGATAAATTGTAATAACAGCAAAGGGAAATTTTTTAAAGAAGAGCAA
AACTCAAAGTCAAAACATCACATACTCTTATGCCTTTGGAAAAGAAATAATAAAATAGA
AATTTGCCNCCATCAAATTATAACTATTTCTGAATTCAGGGAAAAGACAGGNGNAAT
TAAAGGGAATTAATTAATATATCAAATNTCTACCCTATTATNAACATACCAAGAAATG
AAACAAAAATTAATTAATAACAAATNTTTGGGCTCCACCCGAAAAAGAAATNCCTCC
AGGNGGCACACACACACNNACCCACACCACGGCCACAACAAAAAC

Sequence 1309

CCCTTTCGAGCGGCCGCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTNCCTTCTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAANAACCNNANCCNTTTTTT
TTTTNACCNAAAGGGTTNNNCTNANTAANNACCCNTTTNAAANNACNNNNTTNAAAA
NNNTTNTTANAAAAANNATTNNACCCNNTNTNAAAAA

Sequence 1310

CCCTTTCAGCGGCCNCCCNCGGCAGGNACAAACCTNGTAGGNTAATCCANCTCTAATTG
ANNGGGGAGCANNACCTTCTGCTTCCTTTAATCCCAGATCNGAGGCCAAGGG

Sequence 1311

CCCTTTCGAGCGGCCGCGCCGGGCAGGTACAAACTAAAATTATGGGAGAAGAACTATGA
GTGAAACGATGAGAAAAACCTAATGCATGATGTAGAACTGAGTGGTGTTAATAGCAGAGC
ACTGGAGGGAAGGGCCACAAACTCTCACCCCAAGGTCTAGAATCATTCTAGAATCATC
CTACAAGCCTAGTTTTCTAGAGATTCAGCCCTATTTTATTTCTTGTCTTGGAAATTATAT
GAAATTACGAATTTCTGTGTGTTGTCAGCTGTAATAGAATCCCTGGAATTTTATTTACTT
TTAATTTTGTATTTATTTATATACTTATGTGCCATCTTCTCATGAAAAAGAGGCAGTATG
TTAAAAGTTTGAGTTCAGATTTTCTGATGTAGATAAATAAGCTAAAGAAGGCAGGGTGAA
GTGTGATATATGAGAATTTCCAGAGCAGGGTATTCGTAACCTGTAAGTATTTAGTCCAAG
TCCCTCTCCCAACACATTTTACACTAGAATAAGATTGAAAGGCCAGATGTGGTGGCTCA
CGCCTGAAATCCTTTTGGGAGG

Sequence 1312

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCGCCGGGCAGGTAC

Table 1

AGTAAGCCAAGATTGTGCCACTGCACTCCAGCCTGGTGACAGAGCGAGACTCTGTCTAAA
AAAAATAAATAAATAATAGAGGTGAATGTCTGCATTAGGATCAAGACAAGAAGAAGACAG
ACAATCACTTTGGAATTCGAGACTACCTCCAAGAATCATCCACGGAAGGATGTCAGCCA
TTTAACCAGGGCTACGGATCAAAAAGGAAAAAATACAGTCAGTGGACAAGTAGAAGAGTC
TCCTGAAAAATATCCGTATTTGAAAAGGCAGCAGGAGTTGATAGAAAACATAACTAAAAA
AGTAGAAGACACTGTTAAATTTGAATCTGGATCCTATATAGCTTCTTCTCTGGGATCTAC
TGAGGAGTGAAATCTAAATGAAGATTTAGCTTAGAAAAGCATGAAGATAGTATGTTCCAAT
TTTAAATAAAAAATTATTTGTCTGAAAGACAATACAATTTTAGTACCTCGGCCGCGACCA
CGCTAAGGG

Sequence 1313

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGGNTNNTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAAAAANGGCAATTTTA
ANAAAAAATNNAAATTTGACNGGNNAATACCAAANGGAAAGTGNNTGANCCNCNNAAAA
AAAAAAGGTTTTACNTTTTTCNAAATTTANNTNTTTTTANAAAAAANAAGTTTTAAAN
TTNNGANTTTTAAAACCNCTTTTNAACTGNAAAAATTTTTTNAANANCTTTACCCGAAN
TTAATATAANCNAAAAATTTTTNNTTTTTTAAANTA/AAATTANCNACCCNAATTTAAN

Sequence 1314

CGCCCGGNCAGGTACCTNCTTAGAAACCTAGACTCCANAGAACACTGTTTGACAACCACT
GCAGTAGAACATAATATATCAAGATTNTAGGAGTGGGTTCTTTTTTCATTTTACATGT
TNTAGAATAACATGCATAATCAAAGCTAATAACTGTGTTTTCTTTACTCTTTTATTTG
CCTCTAAAGACATCCACNCATAGNGGTGAACCTGATTTTTAATGCGTTTTAAATAAAGGC
ATTGAAAAATATTAATAATTGNAGTTACTAAAAGTATTTCTCTTTGCGATTCTCTNATCT
GTGTTTCCAGACCGGTTGGGAGGGGTGACAGATCAGAAGGCTCTGGTCAAGAGAATGAAA
ATGAGGATGAGGAATAATAAACTCTTTTTGGCANGCACTTAAATGTTCTGAAATTTGTAT
AAGACATTTATTATATTTTTCTTTACAGAGCTTTANTGCAATTTAAGGTTATGGTTT
TTTGGGAGTTTTCCCTTTTTTTTTTGGGATAACCTAACATTGGGTTTTGGAATGATTGGG
TNCCATGAAATTTGGGAGATTGGTATTAAACAANAACCTAGCAAAAATGGTTTTTAAAA
CTTTTTTGCCCGTGTATTGAAGGAAGTGCTANNAAAATGCNAAAAGTGCCAATATTTTC
CCTA

Sequence 1315

CCCTTTGCGGCCCGCCCGGGCAGGTACATTTGGTGGAGTTTGAGACCAGCCTGGGCAACA
CAGTGAGACCCTGTCTCTAAAAGCATTAAAGCATTAACTCTCGCATTTGATAGGGCTAT
GTAGCTTTTAAGTAAGCAATGTTAGAATGAGTTGTAGAGTTTTATTTTGTGAATATAGT
GAGTGACAGATGGCAATTACATGAGGATATTTGAACGAAGGTACCTCGGCCGCGACCAGC
CTAAGGG

Sequence 1316

CCCTTAGCGTGGTCGCGGCCCGGAGGTACCAAAGACACTTATTATTCTAACATGCATCAAG
TAAAGTAAACAAGGAGAGAGGCTGCGGTGTGTGGGTAGGGGATGCAGGAGAAGCTGTGT
AAGGTAGTGGACAGCTGTGTGGCTCTGGGGATGAGACAGACTAGACCAGGCAAGTGCTTC
AGGCAGGTGCCCCGTCGGGAGGCCCTCTGGAGTTACTCATCTTGACGCCCTCGGGCTACTCA
CCATCAGGGAGCCCCGCTACCTGCCCGGGCGGCCGAAGGG

Sequence 1317

CCCTTTGAGCGGCCCGCCCGGGCAGGTACTNNCANGTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTACNCTGAGTCAAAAAATNTTTAATAGTTNCAAAAT
TTTTTTTTTTTTTTTTTTTACAAAATCANTTTAAANANCNNGNGATTTNCCNTAATT
ATCAAAATNTTTNTTCTTGGGGTNTTGGCTAAGGGGGCTNAAATAAAAAAAGGCCTT
NGANTNTTGGNTCAAAAAATNTNNTAAAAANCCCCCTNTTGANNNTTGACATGCTTAC
CCCTTATGAAAANCCCCCTCNNTTAAAAAAA

Sequence 1318

CCCTTAGCGGCCCGCCCGGGCNGGTACTACTTTTGTTTTTTTTTTTTTTTGGATCAATAAG
TNTATTTATGTTGNATCACACAATAGTTACACAAGCATTTAAAAACACATGCNCACNTGT
TTATTATACCATACATACAAACACACATACAACTTAATATTACAAGCACATACAAGCAC
ATACAAACATATAAACAACAACAACACTAATTNAACATACATACTTACAGCTTA
CGTTT

Sequence 1319

CCCTTAGCGTGGTCGCGGCCGANGTACATGAAAACATCAGTGTGACAGTTAATATTAAT

Table 1

GTC AACTTGATTGGATTGAAGGCTGTAAAGTCTTGTTTCTGGGTGTGTCAGTGAGGGCGT
TGCTAGAGAAGACTAACATTTGANTCAGTGGACTGGGAGAGGAAGACCCACCCTCAATAT
GGGTGGGCACCATCCACTCAGCTGCCAGCGAGGCTGGAACAAAACAGGAGGAAAAAGGTG
GGATAGGTGACTTGCTGAGTCTTCCAGCTTTCATCTTCTCCCCTGCTGGATGCCTCCTG
CCCTTGACATCAGACGCCAGGTTCTTGGCCCTTGGACTCTCAGACTTACACCANCGGTT
TGCCGAGGGCTCTTGGGCTTGGCCACAGACTGAAGGCTCTACAGTGTGGCTTCCCTA
CTTTGAGGCTTGGACTCGGACTGGGCCACTACTAGCTTCTTNCCTCCTCANCTTGCA
GGTGGCCTATAATGGGCTTACCTTGTGAACATGTGANCCAATTCTNCTTAACAAACGC
CCCTTCATACATACATATATCTATTAGTTCTGGCCCTCTGGAGAACCCTAATACACTCG
ATAAAATTTCAATTAATAATTTTAAATA

Sequence 1320

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TT

Sequence 1321

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTCTT
TT
TTAAAAAANT

AAA

Sequence 1322

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAGCTTCTTCTATTAAGTGCCTAAACTATAG
GCAAACCTTGGTGTTCCTACTAAACACAAGAGCCTCACACAATTAGGAAAAAAAATCA
AAAGAAACAAGGAACTGAGAATGGAAGTTAGTGTAATCTCTGCATTTGGGGAGTTGTC
ATTAACCTCAGAGCCCAGCATAGTTTCCATGGAGCCCTGAAGGGAGGGGACCTCCTGCCA
CAAAGAGTTTCGTTCCAGACGAGTCGTAGCAGTGGGTGTAACAGCATTGGGGAAGAAGT
CAATGTCTGAAAAGTAATTCCTCCAGGTTTCATCATGATTCTACGGGAAGAGAAAGAGAC
TACAATTAGCACCTCTAGCCATGGGGCAGGAAAAGGGGAGGAAGGGACAGGAATGCTTT
CTGGTCTCCTTAAGGGAACAGGGTTCTACAGGTACCTGCCCGGGCGGNCGCTCGAAAGGG
CGA

Sequence 1323

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TT
TTTTTTTTTTTTTTTTTTTTAAAAANAAAAAANNNAANTNAANGGGNGNNAAAAAANTT
TTNAAAAAANTTTNCCAATTNGGGTTTTTTAAGGGAAAAAANAAAAAANNNAA
ATTNCCCNNAANTTTTNACCCCCCCCCNTTNAAAAAANAAAAANTTTTTTNAAAAA

Sequence 1324

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGGTTTAGTTATGGCTGTTTTTGCCCTCTAAC
ACTTTTATTTTAAAAAGAAATTAATAGGTTATTGGGATCAAAGATATAGGCTTTTTG
TTACTTTGAATGATTTTGTAAATCAGAATATGCACTTGTTATTTCACTTCTTATTTTA
TAATTATTGGTAGAGTTCATCTAATTACCTATAAATCCCTGGAGAAAGGTGGCCCCCAT
ATACTTTATTTCTTGGTTATATGTATAAAATCAGTAGGCAATGTAAAAATGTTTTGTG
TGAATTTATGTGAGTTATAATTCTAATTCTATGTCAATATTCACCTCAGATTACCACATG
AAAGCTCAGTCACCAACTATGCCTCATACTGAAATACCCACTGATTAATCAAGTTGACA
ACCAGCTCCTATCGTACCTGCCCGGGCGGCCGCTAAGGG

Sequence 1325

AAGCAGGCATGGCATATAANCAAGCTTTTTTTAAGGCTGAGTGACTTATGTGGCTGATAG
AGGAAGGATAGGAGGAAAGGAAATATAGTGAAGGAACAGAGAGGAATAATAAGCTGG
CAAGTCACAGACANCATAATTAGACTATCAAAAGAANATTTGGAAGAAAGGCATGGACAG
GAATAAAGACCTNCTTCTAAAGCAAGGTAGGGAGAGCAACTNNATGTAGATTGAANAGAA
AAAGGAAAGAAAAATG

Sequence 1326

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGATATTTATTTACAAAACACTTCATTA
TTTATAAAGAATTTACTAACAGTTTATCTTATTTATACCCATACATCTGCTACTTTGGGA
GGCCCTTACATAGAAAACAGCATTCTTTTTGCCAAATATGACCAAATTACTTTATTTA

Table 1

TAATTTTGTATTTATGTTTCAGCTAGATCTAAAAAGCATCTGAAGGAATTTACAATGAAA
GATACCTATGCAATAACATTTAGGATAATCTTTGACATTTTGGAAAAATAAGAATTGAGG
AAAAAAGTGTATCTTTCAAGTAGATGCAAAGCATTATAATGACTGACACTTGTATCTAAC
TCCAGTCTTACAGATAACTAAGGCAAAAAGCTAAATAACAATATGTAACCTCTAACATT
TGGTAAAAGGAAGTATACTGGTCTGTTAGCAGAGACAACTTTTTTTAGAATTGAAGTCT
GAAACAAACAAAAG

Sequence 1327

GCCGANGTACANGCCGNGGAAGAGACTCAAGTAGGAGCGCCTGCCCGAGCTGANACTAGA
TGTGAACCTTTTACCATGAAAAATGTTAAAGATATAAAGGAAGGAGTTAAACAATATGGA
TCCAACCTCCCCTTATATAANAACATTATTACATTCCATTGCTCATGGAAATAGACTTACT
CCTTATGACTGGGAAATTTTGGCCAAATCTTCCCTTTCATCCTCTCAGTATCTACAGTTT
AAAACCTGGTGGATTGATGGAGTACCTGCCCG

Sequence 1328

ATCTCCACCGCGGNGGCGGCCGCCCGGGCAGGTACCGGAAATCTGCAGATCGCCAAGTAA
TTCTATAATGATGCCCTCCTCACGTTTGTCTGGAACTGGTTGTGAACCTCCGAAGAGG
CTTCCGGAAGGAAGACATAAATNCCCAACGAGGAGGGACATNGGANCTCCACGACNTNNC
TCCTATTACTCGGCACCCCTGCAAGCTCTCTTCATCTGGGCCATTCTTCAGAATAAGAA
GGAACCTCTCCAAAGTCATTTTGGGAGCAGACCAGGGGCTGCACCTCTGGCAAGCCCTGG
GAAGCCAGCAAGCTTCTGAAAGACTCTGGCCAAAAGTTGAAGAACCGACATCAATGCTTG
CTGGGGGGAGGTCCCGAGGAAGCCTGGCCTAATGAGTACCTCGGGCCGGCTCTAAGAAA
CTANGTGGGAATCCCCCGGGGCTGGCAGGAAATTTTCGATNATTCAAAGCTTTATCGNAT
ACCCCGNCCGACCTTCGGAGGGGGGGGGGCCCGGGTACCCAAGNCTTTTGTTCCTT
TTAGTTGAAGGGGNTAAATTGGCGCCGNCCTTTGGG

Sequence 1329

CCCTTTGAGCGGCCGCCCGGGCAGGTACAGAAGGTTTGGGATTCAGCATCACTTCCAGA
GATGTAACAATAGGTGGCTCANCTCCAATCTATGTGAAAAACATTCTCCCCCGGGGGCG
GCCATTGAGGATGGCCGACTTAAGGCAGGAGACAGACTTATAGAGGTAAATGGAGTANAT
TTAGTGGGCAAATCCCAAGAGGAAGTTGTTTCGCTGTTGAGAANCACCAAGATGGAAGGA
ACTGTGAGCCTTCTGGTCTTTCGCCAGGAAGACGCCTTCCACCCAAGGGAAGTAAAGCA
GAAGATGAGGATATTGTTCTTACACCTGATGGCACCAGGGAATTTCTGACATTTGAAGTC
CCACTTAATGATTGAGGATCTGCAGGCCTTGGTGTCAAGTGTCAAAGGTAACCCGGTCAA
AAAGAAGAACCCACGCAGATTTGGGAATCTTTGTCAAGTCCATTATTAATGGAGGGGGCA
GCATTCTAAAGATGGAAGGCTTCG

Sequence 1330

CCCTTTGAGCGGCCGCCCGGGCAGGTACCGTGTGTTTGTAGTTGACTAACACTGACCTG
TAATGGTCTACACCCTCTCCACTTACTTACACTATCTTAGGTAAATAAGACTTTTATTC
CTAAGTGTGAATTTTACAGGAGGAGAAATCTGGCAGATAGATCCTCACCATCATCTGAA
CACTCGAACTGGACTTCCTTTTCTGAATTGACCAAGTCAAAGAGAAAGGAAAAAGAAAAA
ATATGACCCGGTTGAATTTAGAGTATCAAAGCATGGAGTATAGAATAATTTTGTGTTTTAA
AAGAGGAGCTATTAAGTTGAATGGAAGGAAAAAGTTCTGGAAAATGCGTTCCATGTAAGG
ATAGTAATCCCG

Sequence 1331

TATCTGCAGAATTCGCCCTTAGCGTGGNCGCGGCCCGAGGTACTGTTTGCATTAATAAAT
TAAAGCTCCATAGGGTCTTCTCGTCTTGCTGTGTCATGCCCGCCTTTCACGGGCAGGTC
AATTCAGTGTTAAAAGTAAGAGACAGCTGAACCCCCCGCGTACCACTGTAATCATTATT
CCCAATGTTATGATTACATTGACAGATAACTCCAGTTTTGCTAACCTGAACTGATGTTAT
GGCCATAATATGTTGTTGATTGATGGCAAANGGTGATGTGTGAGTTATGATCCTGTTTTT
CTCAAAATGGTGGTGGAGGCCGGGAGCTTATATGTTTATTATGTATGAATGANGATAGC
AAGAGATGGCATATAATCACCAGACTGATCATATTGGATTCTTTG

Sequence 1332

CCCTTTGAGCGGCCGCCCGGGCAGGTACTGGATTTTTGCAAGCCCTCTATTTAAATTC
CCCAGAAATTAATAAGGAGGCTTTGGAGGGAGGAATGCCCTANACAAATTGTGGAGTGG
GTTTGTTTTGTTATGGAGATGGTCTTTAAAGTCTAAATTGTCCCCGTTTTATTTTGGC
CAATTGAAGAGGGGCTGAACTCAGCTGGGAGGGAGGGGATGGTTGTCAAGCCTACAGCTT
TTAGTTGAAACCAAGTCCATTCTGGGGCCAAGAAGCTTCCATTTTAGCAAAGAGAGAAA
GGGGAATAATACANACTCGTACCTCGGNCNNACCACGCTAAGGGGGCGAATNCCAGCA

Table 1

CA

Sequence 1333

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTAATTCATTCTACTTTGTGTTAACTATCTT
TTTATGTGTAGGTCTCATCACCCCAACCAGACTATAAATTCCTTTGTCATTATTTAAATC
CATGCATGGAACTCCCATAGACATCAACCAATCACCAATAGACAAGCCTTAGAACATGTA
TTACAGGAAAAATAGAGTAACACATACAACCTAATACAGAGGAAGAACANTTGACATTTAA
ATAGAANAANAATTAACACTCTTTGGANTCTATAAANAATGNAAACAGAAAGAAAGAT
NGAAGGATAATNCGTNAACTTAGAATATTCATTGCTTCAACATTCAATAATTAA

Sequence 1334

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAGTTCAACAAAGTTTGTCTTGATTAAAAA
AAAAAGATGAATATCTAATGTATAACAACCTCAACTTAGATTCCAAAATCTTGCATT
CATTCACATTTGTGCTTCTTTCTACACAGCTGTCAATTACATTCTAGGCTTGTATTTCA
CTATGTAAATGGGAATTTAATCTTTATAAATGAGGCATTTATGTAAAAAAGAAAAA
AAGTACCTGCCCGGCCGCCGCTCGAAAGGGCGAATTCCAGCACACTGGCG

Sequence 1335

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAATAAACAGCCAAAGAAAAATAACCAGTTAG
CACTTAAATAAGAATCTACCATGTAAAAACACAGTATGGGACACTACAAGGTAGTATTT
ATATATTTTTTAAATGACTGAGCTACAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 1336

CCCTTAGCGGCCGCCCGGGCAGGTACATCTATCTGACCCAGAGTTACCCTTTTCTATCA
TGCCCCCGTAGGATATTGCCTGGGGACACCTGACAACAGAAAGTCTAAGGTTTTTCATCTA
GGATTGGGAGTTACCCCAACACCAGCAGGATGCAGGAAAAAGTAACTGACCGGATGGTTG
CCTCAATCTGTTGATTCTTCAGTGAGTTAGCTCAGATTTTGTCCAGGAACAGCTTTCAGA
GCCAAAGATTACCGTATTGAACTCTACCAAGGCATCTGGTGACTAGAAAACCTCTGGAAG
GTGGTCATAGCAGAAATTGTTGGGAAAGTTCTCAGCATAATAAAGAGAAATTTTTATTT
CCTTCATTGATCCACTCCTACAGGGAAAAATAAATGGCANATGAACCCATGTATGTCANA
CTCTGNAATAAACATCAGTGAGATCACAGTGTGAGNGAAATTTACGCTGAATTTAA

Sequence 1337

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGCACCTT
ATAAATAAAAAGTGGTATGCCAGTAAAGTTTCAATTTACATTTCTCTTCTGAATGAACT
GAGCATTTTCCATTTTCTCCTANATTCTTAGGAAGCCTTTGTATCTGCGATATAAGTTA
CTTTCTCCTTCTTTGTCATGTTGTTTAACTTTGCATTTCTTTTTAAACCTGCAGTAA
TTTTAAATCTTTTCATTCACTGCTTCTGGTTTTCAAATCACATACAGAAAGAACTCTCCCG
AGTCANAGGGTGTGACCACAGACTGTTCTGGTGCTTCTATGGCTTCATCTTTTCACATTT
GAATCTCTGACGTAGTTGGAATTTATTCTGGNCTATAAGGANCCGACTTTATTTTAAGAA
CAAAATTTTTTTNAACAAATGGTAACTTAACTCCTAAAGGCAGATTNT

Sequence 1338

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTGGTAAAAGATTTTAAGAAGGCATGGGAAT
ATGAATTTCTCACCTAAGTTTAGAGGGTTAAAGGATTGTGTTAAGTGAGGAAGGAAAAA
TCTAAAGGTTTAAACAAGTTGTGAAAGGTTTAAAAAATTAATGTGTGCAAACATATCN
GGCTAAAGTTAAAGAGGTATTATTCTGTTTTTCCATAAATTGAACATTGGAATAAAGTG
CAACAGAGTTTTCTAAATCATTGNTCTGCTCTTTAACAAAAAANATTGTAAANGGTT
ATAAAGGNTTATAANAATCTTACC

Sequence 1339

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTAAAAATTTCCACTATCAGAAGATCCTGATT
AAAATAAAGAAATACATAAAACTCAAACAGTAAGTCAATGTGATTATTTGTTTCATTTCA
GAAGATCTATGGGTCCCACTGCCCGCCACACGTAGTCTCCTGGGTTCTCAACGAAGTGTG
ACCAGCTCTTCTGAAGAGGTAGGGTGAATGGCGACTGTGTTGTCA

Sequence 1340

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTAACTATTTGTTTCTTCTACGATAATTGGT
TTGTTGTGACTTTATCTACCTAGAGTAAATTTGGCAATTTGCATTTTCTCAAAATAGT
TTTTGAATTTATTTGTGTAATTTGCTCAAAATAGTCAATTTAAACAAATTTCTGTTTTA
CTATTTCCCCCTTGTCAATTTAAATTTTGTATTTGTGCTTCTCCCGCGTACCTGCCCGG
GCGGCCGCTCGAAAGGG

Sequence 1341

Table 1

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTGACTATTTTTTAGCAACAAATTACTTTT
GACACACAGCACAAATTGATTTAACACTTCCAATTTTGGAACTATTGGATAAATAATGATG
GGATTTAAATAAAGCAATCCGATTCTACTATTACAGCATAGGGTCTCTTGAGTCCTCTT
AGTAAAAACTATTGTGACACTTCCTTCTTCTCCAAATATTCGGCCTGGAAAGACCTAAA
TACAATGCAGGGATTGAATCAAATTCACACATTTTTTTCTACGAAACAACACCTTT
CTTGCTTATATTTAACAAAACTAGTATAGATT

Sequence 1342

GGTCCGTGGTGCGGGATCGAGATTGCGGGCTATGGCCGCCGAAGGTTTTCTCAGTACT
GGGATATCCCCGATGGCACCATTGCCACCGCAAAGCCTACAGCACCACCGATTGCCA
GCGTCGCTGGCCTGACCGNCGCTGCCTACAGAGTCACACTCAATCCTCCGGGCACCTTCC
TTGAAGGAGTGGCTAAGGTTGGACAATACAGTTCAGTGCAGCTGCTGTCNGNGCCCGTG
TTTGGCCTCACCACCTGCATCAGCGCCCATGTCCCGCGAGAAGGCCGACGCCCTTGAAC
TACTTCTTNGGTGGCTGCTCCNGANGCCTGACTCTTGAACACGCACGCACAACTACCN
GGATTGGCGCCCGACGCTGCGTTGTACTTTGGCATATCGGGNCTTCTGGTCAAGAATG
GNCNCGGNTTGGAGGGGCTGGNNAGGGTGTGNAACCAATGTTTNAAGCCCTTGTG
CCTTGGCGGGGACCTTTCAGCCCTGCAATAATGCGTCCAGAAATAAATNNTGTGGTCT
TGGTGTNNGAAAAA

Sequence 1343

CGCCCCGCGTCCGAATGCAGTGAAAGTGACACTGCCTGACCTTCAAGACTAGATCATCAA
AGGTGCTACAGCTTCTGCTTTGGCTTACCCTCTCTGTCGTGGGACACTCACCTTGGACC
CAATCTCCACACTGTGAGAACTTCTATGCTACCTGGAGAGGCCCTTCTATAGATATTTAG
TCAACAGGCCTAGTTAAAGTTTCAGCCAGCGTCAACCACCAACATGTGGGTGAGTGAAC
CCTCAAATGATTGCAGCTCCAGCCTTTGAGTCTTCAGTTGCGGTCCAGTCATTGAAAC
AGAGTCAAGCTGCCCCCGCTGTGATTATCTGAATTTCTGACCCACTGGGAGCATAATAA
ATGATTGTTTTATGTTNAA

Sequence 1344

GGGAGTCGACCCACGCGTCCGTCCAGAATTTCTAGAGTGGGTGGGCATGATTCCAGTCAA
TGGGGGACCGCCCGTGTCTAAGCATGTGCAAAGGAGAGGAGGGAGATGAGGTCAATGTTT
GTCATTGAGTCTTCTCTCANAATCAGCGAGCCAGCTGTAGGGTGGGGGAGGCTCCCC
CATGGCAGGGTCTTGGGGTACCCCTTTCTCTCAGCCCCCTCCCTGTGTGCGGCCTCTC
CACCTCTNACCCACTCTCTCCTAATCCCTACTTAAGTAGGGCTTGCCCCACTTCAGAGG
TTTTGGGGTTCAGGGTGCCTGNTGTTTCCCTTTNCTGTNCCAGGTCAATCCAAACCCTT
CTGTTATTTATTANGGCTGGNGGGAAGGGTTTTCTTCTTTTCTTTGGAACCCCTGCC
CCTGTTCTTTACACTTGCCCCATTCTTAAANCTCATACAAGAATTTNCACTNATNGGG
GGGCAATGGGNTTGAAGCAAAAGGGGCTTCNNTAACCCCGGGCAAGGCAAAANGCAA
TTNGGTAANGGANGCACCTNCCCCCTTTCTTNGNCCCCTTNTAANTTTTNAATA
AANAACCNNGGTTTTNTANTTTTTAAAAAAACCTGTTTTNTTANCANAAAAA
AAAA

Sequence 1345

TAGCANTTCAGCCCTGACCTGGGTCCGCAGCCTCCAGGGCAGGGGCTGGAGTGGGTNTCT
CAAATTAGTGCTAATGGTGGTCANAATGACTACNCAGACTCCGGCCCATC

Sequence 1346

CCCTTAGCGTGGTGC CGGCCGAGGTACTAGATTGGGTGTGTGATTAAGAGAAAGACAGG
AGTCAAAGATAGTTCCAAAACTTTTGAACAGAACACTGGATGAATACTGTTTACTGAGAT
GGGGAACACTTAGAGAAAAATGCATTTGAAAGCAGAAATACGATCAAGACTTCCATTTT
TGATACATTAAGCTTGGTATGTTTAATTCATAGCTATATAGAGGTATTAAATTGGCAGGA
CAAAATCATAGCTAGAGATAAAAAATTAGAGTTTACCAGTGTAAGATGATATTTGATGG
CACAGGATGGACTTTCTTCTGGGATTTGAGTATACATAGAGGAAAGATGTGAGGATTGAG
CACCAGGGGACTTCAACATTGACAGGCTCAACAGAGGAGAAATCCCAAGAGGATGAGGTT
CCACCTTTAGGACCCGCCAAAGAAGACTTCCAGACAAAGTACCTGCCCGGGCGGCCGCT
AAAGGGCG

Sequence 1347

CCCTTAGCGTGGTGC CGGCCGAGGTACTTTTAACTATTTGTTTCTTCTACGATAATTGGT
TTGTTGTGACTTTATCTACCTAGAGTAAATTTGGCAATTTGCATTTTCTCAAATAGT
TTTTGAATTTATTTGTGTAATTTGCTCAAAATAGTCAATTTAAACAAATTTCTGTTT
CTATTTCCCCCTTGTCAATTTAAATTTTGTATTTGTGCTTCTCCCGGTACCTGCCCGG

Table 1

CGGGCCGCTCGAAAGGG
Sequence 1348
CCCTTAGCGTGGTCGCGGCCGAGGTACAAATTACTCTGTAATATTGCTTTCTATTAAAG
GGTGTGGTTTTTTTTTTGTTGTTTTTTTTTTAGCTAGTCCAGTGGTCTTTTGAT
GTTGGTTCAGCTTAGTGGTTCTCAACCTGGAACAACCCGTANACCCACCTGGGGAGCTC
TTAAATATCAAGTGCTACCCACCTCCAAGATTCTGATTTAAATCCTGTAGTGTTT
TTAAGGCACCCAGGTGATTGTAATGTACCTGCCCGGGCGGCCGCTAAAGGG
Sequence 1349
CCCTTAGCGGCCGCCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTGGGTTTTTTTTT
TT
NAAAAAANGGNTAAAANNAANTTTTTNTTTNCCCCNAANGGGAANGGGGNTNAANTNN
NAAANNTTANNTTTTGGNAAAAAAAAAAAAATNNNANTTTNAAAAANCCNGGGGNGN
TTTTTTTTTAAAAAANNNNTAAANANNTTTTTTTNGGGGGGGTTAAAAANTTTTTTT
NNGGGNCAAAAAAANNNNCCCNNTTTNNCCNNTTTNAAAAANGGAAGGGGGNNNNN
NTTTANNTNNCNNTTTNAAAAAANTNNTNANGGNNTNNNNATTTTTTAAANNAAN
NNNNNNNGGAAANNTTTTAAAAAGGGAAAAAANGGTTTTTTTTTTNNNGNGGC
CAACCCNNGGTGGNGGAAAAGNNACNCCNCCNAGTTTTNCCCCTGGNGGAAAAAGNTT
TTAAAAA
Sequence 1350
CCCTTAGCGTGGTCGCGGCCGAGGTACTTCGTCTTCTAATTTCAAAAATATAACTTAAAA
ATGTAAATATTCTATATGAATTTAAATATAATTCTGTAAATGTGTGTAGGTCTCACTGTA
ACAACATTTTGTACTATAATAAACTATAATATTGATGTCAGGAATCAGGAAAAA
AAAAAAAAAAAAAAAAAANGTACCTGCCCGGGCGGCCAAGGG
Sequence 1351
CCCTTCGAGCGGCCGCCCGGGCAGGTACAAGTATTATGTATCCATAAAATTTAAAAAT
CTTTAAAAATGCATATGGGGGTCAGTAGGTAAAAGAAAAGAGAACCAAGAGAGCTGCAGC
GGGAGCACAGCTTGCTTTAAACATGAGATCCAGCTCAGTGATCATGCGGGGAAAAAGGC
CCGGCATTGCTGGAACCTCTAATATTTAAAAAGATGATGGAACTTGAAATTTATATTT
AATCTTCTCATTTTTAAGTGTGGCAATGTATTGAAGACTTTGAAGCCTCTCTGCTGGTC
AAACAAGATGTATCTGTAGGCTGGATTTAGTCCACAGCTGGCCAGTTTGAAAAGTGAATC
CTGCTAGCCTTAATTTAAATTTTTTAAATTTAATTTGCTTTGATTCTGCCTCCTGCTC
AAAAAATCTTCAATGGCTCCCCCTGTCTGCAAGGNAAAAGTCC
Sequence 1352
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTACA
GNTATACTCGNGGAAAGTTATTCAAATTTCAAATTTATTACAGNGTTTGAAAAGCACAC
AACAGAAGATCTTCATTTATGCAACAAGTCAATCATTTGCAGTATGTATGGAAATAAAA
ATCTAAGGTAAAGTCAACATACAACTCTACCTNTTGCTTTCTCCATTANAATATACACA
TTGGAAATCTAAGTTCACAAAGTTCCCTNTNTACTGAANATAGTGAAATTTAGTGAAGC
CCCCTAATTACCAATTTTTTG
Sequence 1353
CCCTTCGAGCGGCCGCCCGGGCAGGTACATTGGTTTGATCTGGAAAGGCAGGACAACCC
AAAGCGGGCTGGGGACAGTTCCAAGTTATAGGAGTTTTCCAATTGGCAGTTCTGTGAAA
GAGTTTATCTTAAGACCTGGAATCAATACAAGGGAGTGTGTCTGGGTTAAATAAGGGG
TTGTGGAGATCAAGGTTCTTATTAGGCAGATGAAGCCTCCAGGTAGCAGGCTTCAGAGAG
AATAGATTGTAATGTTTCTTATCAGACTTAAAAAGGTCCCAGACTCCTAGTTAATTTT
TAGTGGATCAGGAAAAAGACCTGGACAGGGAAGAG
Sequence 1354
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTNGTTTTTTTTTTT
TT
TTTTNTNTNTNTTTTTNTNANTTNAAAAAAAAAAAAANNNANTTTTTTTANNN
NANANAAANNNNNATNAAANNANTTTTTNANAAAAATCTTTANNAAGGGGGGAA
AAAAAANNTNAAAAAANTTTTT
Sequence 1355
CCCTTAGCGTGGTCGCGGCCGAGGTACAGAACCTGCCTGAGTATGACCTCTCCACCTTAT
AGTTTATGAATGTCTGTTGTGAAAGTGACTATAACCCAACTTTTTTTTTTAAAGAG
GATTTGGAAGTTGTATGGATTTTTGTTATCTTCACTTACTGCATAGGAAACAATCTAC

Table 1

CTCATCATTTAAATGACATGGGTGTCGGTTTTGTAGATCTTTGGTTTTTTGTCAGGTT
TAATTTTCAGTTAACAAAATGTAAACATGACATTCCTGCAGATATTGTTGTATACCACT
ATGGTTTCTTCTCTTTCTTTAAATGTTTTGGCCATCAAGTA
Sequence 1356
CCCTTTTCGAGCGGCCCGCCCGGGCAGGCACTTTTTTTTTTTTTTTTTTTTTTGNGTTTT
TTNA
AAAAAAAAAAAAATTTTTNNAAAAAAATTTTTNTTNNNTNAAANTTTAANTTTTTNAA
AAAANCCANGGNTTTTTTTTTNAAAAANNTTTTTNCCNGTTANGTTNTTAAAAANNANTTG
GGGGGGGGNCTTTTTNTAAAAAANGGGNNNNNCCGNCNCCGNAAAAAAN
Sequence 1357
CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACAACACTTTAAAAAGTGAATTTAAGCTATGT
GAATATCTCAATAAAAAACATTTTTTAAATAAAAAACAATTCCTCAAGGCCTGGAAATTCAG
GAACATAATTCAAATAATTTATGGATCAAAAAATAATCATATAAGATCTGAGAACTA
CAATGTAAAAATATAGAAAAAGTCATAACAATATTAGAAAAAATTTGAGCTGGATAAC
AAAAATAGTACCTCGGCCGCGACCACTAAGGG
Sequence 1358
CCCTTAGCGTGGTCGCGGCCGAGGTACTTACATGGAAATAAGTGTAAAGAAAAGGATTGC
TTATTGGTAGCATATAGATTTAGAGTCAGGAATGATGGTGATTTCAAACAACCACAGAAC
GTCCACATGGGTGGCTGGCCAGGATAGTGACACCTTTGCTTTCTAATGGCTTAGTGTACC
TGCCCGGGCGGCCGCTCGAAGGG
Sequence 1359
CCCTTAGCGTGGTCGCGGCCGAGGTACAAAGAAAAAGCTAAGGAACGGTATGTATATTAA
TCCCTTTATTAAAAATGTAAAAAGCCAAAAGCAAGATAGACGCAGATATGTGCCAAAATA
TGATTTTTTTTTCTGGAACAAATCACAAGAAATGTAATAACAGTTACAGTGAGAGGAG
CCTTTGACATCTCTTCTAACTATTTGATATCATTGTATACTAACGATGTACCTGCCC
GGCGGCCGCTCGAAGGG
Sequence 1360
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGATAGGCCTTCTTGTTATTATTTCAAAGA
AAGAGACTTGACGTTTTATGAGTGGGGTGGATTGTAGGTTGAGCAGAACTAATGGGAGAG
GTGCTGGCTAGAGAAAGTTAAAAATTTCTGTTAGCTTTGCATTGAGCTTTTTAATATCAT
TTGTTCAATTCACCAAGTTCAGAGGATTGGGGGTGATGGGCACAACAGAAATGATGGAATA
TAGGCCAAATGTTACAAAATAGATAAAATTACCTGACCAGTGAAGTGTGTTCTCAGTCG
CCATGGANCTCAGATTTGAACTCCCAAAAAAAAAAAAAAAAAAAGNN
Sequence 1361
CCCTTAGCGTGGTCGCGGCCGAGGTACTATAGCTTCAGTGTGGTTAGTAACTTAGCCT
AGGAGGCCAAGATGTCTCCCTAAACTTAGTCTCTGCTTATTTACTTTGTTTATAAGAC
TGTGACCTAACTTCCCATGGCCAATTCAATCGACTAGGTTATCTTTACTCCAATGGACCC
AGGCCTTTTCCAGTCAATCCATGTCCAACCTTCATCTCCAGCGTGATCACTCAACTCT
TCAACATGCCTGCTTGCTGCAGGNTTAAACCACACCCACCATCCTGTGCTTNCCTTA
ATCGCCATTGATGCCCCGCANGGTAAAAATAAACTA
Sequence 1362
CGANGTACATGAAAATGGCTGTTTTTCCCACTTANTCAGCTCTGGATTTGCATGTGT
GGGGCTTTTTTTTTTTGATAGTTATTTGTTTTTATTTAAAAATTTATTTNGCCAA
CCCAGTANAGAACAGCTGAGCATNTTCTCATGTATTTATGGCCATTTGCATTTCTGCTG
CTTATTGGCCATGTATTTATNGGCCATTTGCCGTCTGCTGTGAAATGTCTTAAATNTTT
GCCCATTTTTCTAGTGATAAAACACTGAAGCACATTTTTAAAGA
Sequence 1363
CCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAGGTGATGCTAATACTTTAAATGTC
ATAAGATATAGATTNAAAAAGCATTGTAAATTGTATACTAGCAAAAGTCGTCTANATGGC
ATTGNACAGGACATAATGTAAACAT
Sequence 1364
CCCTTAGCGTGGTCNCGGCCGANGTACTTAACTTTTTCAGCCTACTACTGCACACCTAG
GCTATGTGGTATAGCTACCTTGATATGTGGNCTGTCACTGACTAAACTTNGTTACACA
NGTATGACCCTACTATTANCCTTGAGAAGATGGAAATGCTGNCATTTGCAACAATATG
GATGAACCTGGAGGACATTAATTAANTGAAATANGCCAGGCACAGAACGACAAGTAACA
CATAATC

Table 1

Sequence 1365

CCCTTAGCGTGGTCGCGGCCGAGGNACTTTTTTTTTTTTTTTTTTTNNTTNACTTNATTN
TACTTTAAGTTCCAGGATACATGTGCAGAGTATGCAGGTTTGTTACAGGTATACATGTGC
CATGGTGGTTTGCTGCACCCATCAACCCATCACCTAGGTTTTAAGCCCCACATGCATTAG
GTTTTGTTCTAATGCTCTCCCTCCCCCTAACAGCAGTTTTCTATAGGNCAAAACAAAT
TTGGGAACCAGAATNGNCTACTGCTTTATATAAATGATCATTACGATTGGGANGAGGG
TTTTTT

Sequence 1366

CCCTTTGAGCGGCCGCCCGGGCAGGTACCACAACGTTTCTACTCTATTGTGTAAGCTTT
AAATACAAAAATACCACAACCACTCCCGGACTCCTCCATTATTTAGTAATACTGGCTGC
CCTAGTTTTTCAGGATACATCATGCAATAAGTTCTTTTATTTTCAAATTATTTATTC
CTAAAGTATCTTTAATTTTTCTTTTTGGTTATACAGCTTATAGAATAAACAAAGTCACAAG
AATCTTCATTTGTTTCTAAAGTATATAATTTTACAAAAGTTGTTTACTCAATGTGAATT
AAAATTTGCAAGGTCTAAAAAATAAAAAATTTTAAAAAGTAAAAAAA

Sequence 1367

CCCTTTGAGCGGCCGCCCGGGCAGGTACAAATATATTATGAAGCATGACCACTTTATTTT
GAACTTAGCAATTGTATTGCTGGGGTTTATTGTATCTGTAGCATGTCACTGATTATTTT
AGTTAGTTTTTATAATGATTTTTAAAAAACATATCTATTTGGAATAAGATACAGCAACAAT
CATTGCTATTGACTTGTTCAACCCCTTAGTTACACTGTATGATCAACATATAACAAGATA
CAGTGGGAATGGCCCATACAGTATATTACTGTTGTGTGATGATTGGCTTTGGAAGCAGTT
TGATTTTGAATGCTTTGATATTCTAATTGACATGGAACAA

Sequence 1368

CCCTTAGCGGCCGCCCGGGCAGGTACATATGATGGGGCCAATGCACAATACTTTTATCAC
AATCAACTTTTTCTTTGTATCCCTATTTCAATGAGCAGTCAGTCTCAAGAGGTTACTGCA
TTTCAGTTCTAACTAGACATTTGTACTTGTGATCACACTACGGGAATCTCTGTGGTATAT
ACCTGGGGCCATTCTAGGCTCTTTCAAGTGACTTTTGAAATCAACCTTTTTTATTTGGG
GGGGAGGATGGGAAAAAGAGCTGAGAGTTTATGCTGAAATGGATTATAGAATATTTGGA
AATCTATTTTAGNGTTNGTTGNNTTTTAACGGTCATTCT

Sequence 1369

CCCTTAGCGTGGTCGCGGCCGAGGTACAGCTTTCTCTGCCTCACGTTTCAAGCTTAATGC
ATCATCTTAATTCATCTTTTCGACATCTATTTCTACTACATGCTGCTCTCTTTCTCTATCT
TACATCTCCAGAAATGTTTTATTTCAACAAATTGCTAATCTGTGCCAGGCATTGTTATTA
GCAAAATGATAAGCCCTGCATGTAGCAAAGTTCTGCCTTCACTTGCATATGCATTAACA
AGCTCTGATTAGTCCCACTTAAAAACCATTTGTTCCCCCGTCATGCAGAACTCCATTGCC
AAGCCACACAACACCCAGCCAGTAGGGTAGCAGCTNCCCTGGAGCAAGGGA

Sequence 1370

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTATTTTTTTTTTTTT
TT
TTTTNNCNCNCCGGNNNAAAAAAGGNCNAAAAAANGGNTTTTTTTGCATAATNAAA
AANNAAAAAGGGNTTTNAANGGANTTGGNNTTTTTTTTTTNGNCCNNGGNAACTTTNA
AATTTTTTTAAANCCNGNAAAAAANTTT

Sequence 1371

CCCTTTGAGCGGCCGCCCGGGCAGGTACTGTGCTTTCCTTCTACCTCGTCTCACCCT
ACCCGAGTGAACTTTTCGAGTGTGAACCTTACTTTTTCCCGTTCTCCTCAAGGCAGT
TTGAACGACACAGGTTTGAAGGAATAGTTAACTCTCCAGTATTATTGGAACATCTGGAC
ACCACCAACAAAAATCTTAGAAAAAGGGTCATTTAAGGCCTATAAAAAAGTGCCACCTTTC
CCAGAATTAATTCAGAGAGAAAAATCTTATCTGCCTCCTGGCAGCTACAGCGCANAAAGT
ACCTCGGCCGCGACCACGCTAANGGGCGAATTNCCAGCACACTGGCGGCC

Sequence 1372

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTGGTTTTTTTTTT
TTAAAAANCCGGNTNC
GCGGGNANANAAGGTNCANNATNTTTNAAANNTNANTTTTANCAAAAAAACAAAANT
TTANCCCAACANNTTATTTTAAACAGCAANANGTAAAAANCCCAANCNACNTTCCANNT
AANAAAAATTTTTT

Sequence 1373

CCCTTAGCGTGGTCGCGGCCGAGGTACAGCTATTCTCAATGGATAATTCTATAAAATATT

Table 1

TAAAGAAGAATCAACACCAGTTCTCCACACTCTCCTCTAGAAGAAGAGGAGGATGGAATA
CCTCCCCCTTAATTTATGAGGCCAATATTACCCTGATGCCAAATCCAGACAAAGATATT
GTCCCCAAAATAAACTAACGATCATAGATAAATACCCTCTTATAAATTTAGATGCAAA
ATCTTAAGCAAAATATATTAGCAAAATGGAATTCAACAATGGAATAAACCTATTATACCA
CCAAGTGGGAATTTATTTCTAGCTATTGCAAGACTAGCTTGGACCTTTTGAAAATTGATT

Sequence 1374

ATATCTGCAGAATTCGCCCTTTGCGGCCCGCCCGGGCAGGTACTGGGAATACAGGCATGA
GCCACCGCACCCCGGCCAGAAATTATAAATCTAACCAGGATTCCAACCTACAATACAATGA
AATATCATTTCTCTCTTATAGGTTTTTGGTTTTTAACCAATCTATTTTAAAGGGGCAATT
CAAGGATTATGGTTTATATGGNNGGATTTCTGTTTGAATATGATCAAAATGTTCACTGGAG
AACAAGCAATAATTTGCAAAAGGCATATNTATGCCTTACATTAAATGTGGATCCTCTTCT
AAAAGTAGAATAAGCATCAGTTCAGTCACCCAACGGTGGGAAG

Sequence 1375

CCCTTTGAGCGGGCCCGCCCGGGCAGGTACGCGGGGGATATGATTGGCCGGCGAATCGTGG
TTCTCTTTTCTCCTTGGCTGTCTGAAGATAGATCGCCATCATGAACGACACCGTAACCTA
TCCGCACTAGAAAGTTCATGACCAACCGACTACTTTCA

Sequence 1376

CCCTTTGAGCGGGCCCGCCCGGGCAGGTACTTTCTTTTTTCTTTTTCTTTTTTTTTTTT
TTTTTTTTTGAGACAGGGTNTCACTCTGTCAACCAGGCTGGAGACAGAGCAAGATCCCGT
CAATTAACAACAATAAATAAACAATAATGCCAACAAGGAAGAGAACGGGAAGTCAT
AGGCAATCTCATTATGACATAGATTAAAAACACCTGAAGTATATACATACCCACACCC
CCGACATGAATACATATGAGATGTGTAAATGTGAATACTTACATGTATGTATGAAAGC
AAACCAATCAACAATGTAAATAAATAAACACATNATGACTGACTGGCATTTGTCCC
AAGAATGCAAGCTACTTGAGAAAATCTATTAATTCATCAATTAATACTTTAAAGAG

Sequence 1377

CCCTTAGCGTGGTCGCGGCCGAGGTACCATATAAAAAACATTCCAGTGTCACAGCACTTT
AAATTTTACAGTAATATATGAAAGAACAGACTTTACACTTCTTTTGACAGAAATTATCT
TTGCTATGTTTTAAATACTTAAGAAATAGAAACAAATTTAAGAGAGTTTTCACCTTTAA
AATTTATTACATAAGCTATACACACAAAATGAAATCCTAGTTATAAAGATGCATCTAGA
AGAATAATTTATAATAAACCAACAAAATGAGAATGTGTATCTCCAGGAATATAAATATA
TTTAAATGTTCTCAGTGACTGGCATTGCTTTATGCATTACATAAGATAGTATGTACCTGC
CCGGCGGGCCGCTCGAAAGGG

Sequence 1378

CCCTTAGCGTGGTCGCGGCCGAGGTACACAGGGGCTTGACTTTTTCAACTTCGTTTCCTT
TGTTGGAGTCAAAAAGAACCACTTGTTGTTCTAAAAGGTGTGAAGGTGATTTAAGGGCCC
AGGTCAGCCACTGTTTGTACAAAATCAGGTAACCTAAGTGCATACACTTTTTCTCTTTC
CATGACATCAAGACTTTGCTAAAGACATGAAGCCACGGGTGCCAGAAGCTACTGCGATGC
CCCGGGAGTTAGCCCCCTGGTAATAGCTGTAACTTCCAATTTCTAGCCATACGCTCAGC
TCATCCATGCCTCANAAAGTGCATCTGGAGAGAACAGGTTTCTAAGCATAAAAGATGAAAG
AGCAGTTGGACTTTTTAAAAATTCAGCAAAGTGGTTCCCTCTCTTAGGGACAGTCAAAAC
CAAGTCACTTAGGTAGTACCTGCCCCGGCGGCCGCTAAGGGCGAAT

Sequence 1379

CCCTTTGAGCGGGCCCGCCCGGGCAGGTACGCGGGGTGAATGGAATGCCTTGCAATATGAA
TGTTAATATAATGTGTAAAGGGAGATTAAAAAGTTTGAATGATTATCCTAAAAA
AAAAAAAAANGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 1380

CCCTTTGAGCGGGCCCGCCCGGGCAGGTACAGTAATTTTGAAACCTCTTTGATGTCTGG
CTTATAGAAGACACCTGGGTTCTTATATCTGCTTCTGAATCGATCTATTGTAATGNNGTT
ATTTTGGCTGAAGTATGTTGAAGAAAATACTACCTTACAAAGATATGATTTTCA

Sequence 1381

CCCTTTGAGCGGGCCCGCCCGGGCAGGTACAAGCCATTGAATAAGCCTCTTCCTTTTTTTT
GCTCAAACATTCCACATCCTTGTTGGATTCCCCTGCATTGTTGTTTTATATAACATTTGA
TATTTGTTGTANCTTGTATATGAACATAATTTCTTTAGAGGTAGTCACTGTTCTCTCCA
GTATGACCCAGGTTTCTTGACTCTGAGTAATGCACCTTCTATAACTATCTAAATTTCTAT
TGAAGCTTTTTGGATTATGAGTATGCTGACTTTTCACGATTGGCTGGTGCATGTTAGAC

Table I

TTAAATGTCATATCCTTCATGTCTCAAAGCCAAAATAGTAACATCTCATCTCAGAACANG
AGCTGTGACCACATGCCAATATATGTGTCAAAAGTCTACATATGTTACATTCCTTGGA
GTCTCCTTAAATGTTTCACAAAATGTCAACAAAGCTTGNTTGTNTATTGGATATTTCCGA
GATTGGGCACATTTAAGACAGTAAACGGGGAAAGGTGGNGAAAACTATAAGAAAGATGC
TGATCTTGAGAATTGGAAAAATGANGAATCNTGACATGGTTTGAAAAATCAT

Sequence 1382

CCCTTCGAGCGGCCCGNCCGGGCAGGTACCAAAATTCATTCAAGAAGAAATAGATACCA
GCCTGAGCAACATGGCAAAATCCCATCTCTACAAAACATCAAAAAAAAAAATTAGTCC
GGGCATGGTGGTGCACACCTGTAATCCCAGCTTGTGAGGAGGCTGAAGTGGGAGGATCAC
CTTGAGCCCAGGGANGGTGANGGATGCAGTGAGCCATGGGTCTCACCCTGCACCTAGC
CTGGGGTGACAGAATGAGACCCCGTTCTCAAAAAAAAAAGAAGTNGATAATCTTGAAT
AGCCCTATATCTATAGAACTTAANAGTGTGGGGAGATATAGGTATTATTATCCCTCAA
TTTTACNAGATGGTGAAAATTGAGGGTTCANAAGAAAGTAAAAGTCTATTGCTCAAGGTCA
TGGTGGCTAAGAATATTGGCANANNCATGAATCAAAATCCAGGGTTTTTTTATTCTTT
ATCCAAGGGGTCTTTTNTAGCAATACCCTTGGTTGNCCNTTAAAGAATTGCANTTCC
NTTTTTTACTAANAAAAATTGGTCCCTTGGCCCAAATCNTAAATGTTTCAACNTTCAACC
CCANTTTTTTTTTTAAAGCACCTATGNNTTGGNGTTTTATCANGCATTATNTTGNATT
GGCTTTTGAAAAANACCGNGTNTCNTNTNGGGGAAAGGGAAAAAANTTTTTTTTCCA
ACTTGGCCCTTCGNCNCAANTTGGGAAAA

Sequence 1383

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTGTGTTGTTGGTATCCAAAATTAGGACTCT
GAGATTCCTTGTTATTAGAGAATTTTAGTAGGAAACAAGGACAAATTTGCATATGAAA
TGAAAATAGTTATTACATGACAAAATATGTAGATCTGATTTCTAGAACTGAATTAGTCC
AAAACAAGTAAGAGTGGGAAAAGCAGTAAAAAGTTCTTCTGAATATTGCTGTTGTCATC
CAAAGTATTCTTATTTCTTTTAGGTGAAAAATTTCCATTACTCTTTTNGATATTCTCAA
AAGAAAGTTTAGGATTTTACAGGNGTTCTGAAATACGAACTTAATTCANGTATTTCAA
TAGAGTATTATTGATTTGCTTCTTATCAGTAGATTTTTAAANTATTTATTTCTAGGCTA
TAGATCTTCTTAAAAATATAATCCAAAGTANNTTAAAAAGCCCGATTNTAANCCAAAGTA
TAAAAGATCTCTTTTTTGGGAGCCTGCTNTNTTAAACAGTTTTTCCCAANNTTGGGTTTT
GTTTTTGAAAAACANGAAAAATATNTGGTNCNTAAAAGCCAANCTTTTANTTCTATTANNA
GGGTTTTCTCGCCTCANAANAAACCNNTNAAAAATTTANGTTTAAATTGGGNANGGGAAC
CCCGNGNAAAAAAAAAAAAAAAA

Sequence 1384

CCCTTGAGCGGCCCGCCCGGGCAGGTACCTCACTCATCTCATCCTTGGCTCAGCCCTGCTG
GTTAGTATTTAGTATTTATTTTAGTAAGATATTTGTGTCTGTATGATGGTCAGAGTTGAA
CTGATCTGGCTTGTCAATTTTCAGTAATAAAAAAGTTACTGAATTTAATTGTTGAATAT
GATGCATATCTCATTACGATTTATCAGAAACCAAAGATTTAAATTGCCTAGATTTG
TGGTCTTTCTCTTCTTAAGTTCAGCGACTGCTTTCAAATACTATTTCTAAATTTCA
CCAAAGGAGCAACCGAGGATAAAACAACACTCCATAAAGGCCTCTTGGGATGTCAGAAAT
CTAAATCTAAAAGAAAAACAGACACAGAGCAAGACAATAACATCACAAGCTAAAAGCCAG
AGAAATTTAAATACCAACATCCTTGTGGAGTAAGACAGTAAATATCAGCCTTGCAGC
AAGACAGCTCTGAGCAGCTGTGGGCAAGAGGTAAACCAGTGGGGGTGCAAGGAGACTGT
CTGCAGCTTGGGGCAGAAATGGTGGGAANCAACTTNGAAAAGCTTCATGTTTTACAAAC
CAAAAAGGTACAGGTAGCACCAACNTATTGNATGGTCAAATCAATAAAGGTTACTTTCAA
AAAAAAAAAAAAAAAA

Sequence 1385

CCCTTCGAGCGGCCCGCCCGGGCAGGTACTTTATTTTTTTTTTTTTTTTTTTTTTTTTT
TT
TTNAAAAAANTTNTNNNNNTTTTGGGGNNNGNAAAAAANTTAAAAAANTTTTNNGGG
GNNTTTTTAAANNTNAAAAAATTTTTTTTTTNTNGGNCCCCCCCCCAANCATNTNTAAA
ATTTNGNGATNNAAAAANAAAAANTNNAAAAAATTTTTTTTTTTCNTGNNNNN
TAAAAAANGTTTTTTTTTNCNNAAGGAGATTTAAAAAAGACTNTTTTTTTTTTN
NCAGTTTTTATTTAAAAA

Sequence 1386

CCCTTGAGCGGCCCGCCCGGGCAGGTACGAAAGCAGTCATAGACAGTATGTAAACAAATGA
GTGCAGNTGTGTTCCAATAAACCTTTATTTACAAAACCGGCAATGAGATGGATTGGCC

Table 1

TATGGGCCATCATTTGCAAACCTCCTGATTTANAACAACCCTGCCATGAGTTCCTCCACAG
GCTTGAAAACAGGAAGCAAAATACAAAAAGTACCTCGGCCGNGACCACGCTAAGGG
Sequence 1387
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTCT
TT
TT
TTNGNGAAAAAAGNGNTTNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
TATNTAAAAANNTATNNGNGNTTANGTNAAAAAATAAAANTTTCCNCCCCANAAA
AAAAANCNCCAAAAAAATTTTTTTTTTTAAAAAAAAGGCCNNAAAAAANTTTNN
CNCCTTTATTTAAAAAANTTTGGNTTTTTTAAAAAANAAAAAANTTTNNTTTT
TNAAAAAANTNCNCCCCCNANANAATAATTTNANCTTTTTTTTTTTTNGGGNAA
AAAAATNTTANAAAAAATTTTTNTTAGAAAAGAANAATATATGANAATCTCTCAA
AAAAAANGANNTTTTAAAAANNTTNAANAATAATACTNNCTCTCCTTGGGGGGG
GGGNGGGAANNAATNTTTTTTAAAAACATANATNTTCTATAAAAAAACCCC
Sequence 1388
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTNTTTTTTTTTTTTTTTTTTGGTAGTAAAA
TATCCCAATCTCTTAAATGTATAGGTGAAAAATACTAGTTTCGAAATGATTCCTTAAAA
GCAACAATAAAAAATACTCTTNTTCACTTGAAAGAAAAAACCCAAAGGCAGTGTTTCATAC
AAAGTCATGAAGAGAATTTAAATTAAGGTTTTGGTCCACTTTGTCTCACTTTAACTTT
TAACAGTTNTTATAGGCTTTTGAACCTACTTTGGAGAAGGAAAAAAGTAGGAATAAC
TGTTCTTCAAAAATTTTACAAAAACAGTTTGACTCAACTTCAGTTGTTAAATTTGGGGTA
TTTTCTATGTTGAACAGTATTTGAAATTTCTAACTTATACTGGCAGATAAAATGATAA
AAAAGACATTNTACTCTTNANAGGATTATCAAATGCTGGTGATTCCCGCTACCTGCCCG
GCGGGG
Sequence 1389
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTCTTTTTTTTTTGGAGACGGAGCATCGCTCT
TTCTCCAGGCTGGAGTGCAATGGTGCTATCTTGGCTCACTGCAACCTCCACCTCCCGGG
TTCAAGCTATTCTCATGTCTCAGCCTTCCAAGTAGCTGGGACTACAGGTGCCTGCCACCA
TGCTCAGCTAATTTTGTATTTTAGTAGAGATGGGGTTTACCATGTTGGTCAGGTTGG
CCTCGAACTCCTGATCTCANGTGATCCACCTGCCTCGGCTTNTCAAAGTGCTGGGAATT
CAGGCANTGANCCACCATGCCTNGGCCGCATGTGGTCAATTTCTGGGGGGTAAACCG
GATCCGAATTTTGCAGGTTGCTTTTTGTGACCAACTTNTTTTTNGGGGGAA
Sequence 1390
GGATATCTGCAGAATTCGCCCTTCGAGCGGCCGTCCGGGCAGGTACTCTCAAAAGCTAGG
GCTGCTGACTGAGCANCTACAGAGCCTGACTCTCTTTCTACAGACAAAATAAGGAGAA
GACTGNACAAGAGACCCTTCTGNTGANTACCCTTGCCAAGNTGTCTGCAATGCTTNGCC
GANTTTTCTACTGAGTT
Sequence 1391
CCCTTAGCGTGGNCGCGGCCGAGGTACTTTGTTTTNGGNTGGTNGGTTTTTAAATAACA
GCTTTACAGAGAGATATNATTCATAATTNATAAGGNTTAACTTTTTTCTTTTTTAAAG
ACAAAGNTTACCTTCTGTACATTGAAAAATCTCCTATATCTNGGAAGATTCTGAGCAA
TACATTACGACCCAGGTTTGGGATTNNGCATACTATTGGANAACTGTTTCTGAANAT
AAACACTTCAAGAATTTGAGAAAAATAAACTAAACCCGAAACATTGAACACAAAGGC
NCAAAAACATTTGCCTTAATTTGCANNAAAAAATTACTTTAAATCCCGGATNTGGCTTN
GNAAAAAANAAGNTTTTTNTTTGTTTTGNNTTNGCAAAAACTTTTTGAAGGAATGGC
ATTGAANCTTTANNANGGGGGGAACCNCCNTTCAAAGGGGAAATTTTTTTNCCTTTNA
GAAGGGAATTGGANCTNAAAAAANAATNTNGGGTTANAAATAAAAAAANTTTTTTT
TTTACAAGTTNGCNAAAAAATTAANAANAATAAANCTTTCTACCCAANAACCCCA
TTTTTTNGAAAANTNGGANAAGGTTTTAAAAAATTCNAAAAA
Sequence 1392
CCCTTTGAGCGGCCCGCCCGGGCAGGTACATAATGTAATTGTTACATATAATTGTTGTA
TACCATAACTTACTATTTTTCTTTTTATTTTTATATATAATTTTTTTGGTTTGT
GTTTGTTTTTTAAATAAAGTGTATCACTTAAAAAAGTCTCGGCCG
GACCACGCTAAGGG
Sequence 1393
CCCTTAGCGTGGTCGCGGCCGAGGTACAACTGCCCTACATTTCTGCCTAAAGGCAATTC

Table 1

CAGACTACACANACNGAGANGAAATGCAAATAGAGCCCANCTGTCTCTGAAAAGAGACAA
GAGAAATCTAATTTCT

Sequence 1394

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTCAGTATGGGG
TCTGTGTTGCCAGGCTGGAGTGCAGTGACTATTCATAGGGGCAAGCATTATGCACAACA
GCCTCAAACCTCTGGGCTCAAGTGATCCTCCTGCCTGAGCCTCCCGAGTAGCTGGGACTA
TAGGAGTGCACCACCACGCCAAGCTGGCATTCTCTGTTTTCTTATTTCTGATTCTACTT
TTAGCTTTCTTAATATGCTGATATGTTTTGTTGGTATATCATATATTAACAAACAGTT
CATCTCATCCCCATCATNTATCTTTAAGAAGCCCCCAAACCATTTTACACATTTAGGN
AAACAATGGGCAGGCAATAAGGNTAGNGAACATTCCATAGCCCTCTTTTGATAAACACACA
TCCTTACCTGNTTTTACTNGTNAAAAAAGGAATTNTACAATTGGGTTTCTGGCNCCTAA
AAATTCAAACCTTAACTTTTTTTTGGGAGGGAGTTGGGNGGATNCCAATAAANGCCNA
TNNTTTTTTTGAAAATCNTTGAATGGAATTGACCTGGATTGAATCCCATTAAAGTCTT
TTACTTTATTANGGTTTTNAANACTTTATTTTAAAAATTTTCTTAAGAACCTTAAAAA
CNNCTTGGGGTTCTTAANNNTAAGAAACNNAAAATTTNTCCAAAATTTTAAAAAA

Sequence 1395

CCCTTAGCGTGGTCGCGGCCGAGGTACNCGGGGGCGGAACCTGGGGTTGCGGCGTCTAAGT
GTTTCCGGTGGATTCCCAGGGACTGTCGGAGGTGTGGACTCTGCCTGCCTACCTGGTCTG
GNAAGATGTTCTACCATATCTCCCTAGAGCAGCAAATCCTGCTGCACCCGCGCTACTTCG
GCCCCAATTGCTCAACACGGTGAAGCAGAANTCTTTCACCGAGGTGGAGGGGACCTGC
ACAGGGGAAGTATGGCTTTTGTAAATTGCTGNACCAACCATGACAATATTGGTGTGGGTG
TGATCCANCCNGGCCGAGGCTTTGTCCTTNATCCAGTTAAGTACTAGGTGACTTGATGA
AAACTACTTTGTGAGGCTGNTGGAGCAAAGGNGCAAACCTAATNTGCAATNAAAA
NTAAAAAGTGACACATTANTAATCCTTNAAGGAAATTCATTTTCTTTTTTNTCTGGNN
CTTCNTTTTTGAANCATGGTTATGGGAAACCTTAAGCCTGTNTTAAANNNGGAGTATCTT
TTANTTAAANNTGNAAAAANGCCTTTTNTACTCCTTTTAAAAAATAGNNATTTNTTA
AATNCAATNGAAATTGNNTNGGGGAAAAAA

Sequence 1396

CCCTTAGCGTGGTCGCGGCCGCGGTACTTTTTGTTTTATTTTTATTTTTTGGAGAGGTA
TGATTCTTTCTAGAGATTTTTCTCATGGCTACTATTAGATCAGGAATGGGTGATTGGGA
GATTATTAGATCTAGGTTAACTTCTACCACTTTACCCTAATACATAAACTTTTTCTAA
ATAAATGATGGAAGGAATNATACTTGGGTTACCTGGCATTATTTTCAGTAAGAAAAAGC
TTTACTAACCCTACATTTATGGAANTTGTAGGGGTAAGTATTTATAGGTCATAAAAA
AACACCATAATATTAACGAATCTCATTTTCTTTTAAATGTGAATTAATCCTAACAGG
CATCTTTTATAAAAAATGACCCATAGGCTAAAAAT

Sequence 1397

CCCTTTGAGCGGCCGCCGCCGGGCAGGNACATGTGTGCGCTTANATCATNCAACCTTTCA
GTCACACTATGTGTAAGGCAGTCTGCTAGGTTCCAAGGAATGTGGGGCTAAGTGAATAA
GATGCAGCTCCTTACTTTAAGTCTGGCAAGGAAGATGCATTTTTTACNTAATCTCCACAG
TGCATTGTGAAACATGCCATATGGAAGGGATAAACACTGATGACAAAGTNATTGCCAAT
TTTACTAATTTTGTCAAATTTTAAAAAGAGGTACCTTTGGCCNCGACCACCTTAAGGGCGA
ATTCCAGCACACTGGCCGGC

Sequence 1398

CCCTTTGAGCGGCCGCCGCCGGGCAGGTACAAGTTGTAACCCCTGATTCTGTGAATGTGAC
CTTTCTGGAAGTACGGTCACTGCAGATGTAATTAAGTTGANGATCTCAAGATGAGATCAT
CCTGGATGCAGGATGGGACCTAACGATAATGGCTGGTGTCTTTATAAGAGAAAGGAGAAN
GANATTTNAGACNCANACATGCANATAGGAAAGCCNCNTGGAGACGGAAGCCAAANCCTA
GAGTGNTTAACCTACAA

Sequence 1399

CCCGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCCGGCCGAGGTACT
TACATAGATCTAATTTATACAGTGAGTCAAGACGTAGAATAAATGCTCCACATAGCCTN
TCTTTTGCTTTGCTTCTCTCCTCTGAAGTGTGAGTNGAGTNCTCATTTAGGTTTGTAAAC
ATGGCTATTTCTTAAGTTGTAAAGTNCTGCATTTATAANTGCCANTGTTGNAAGGTGGTG
TTTCTANACCTCCCTGATGCGATTTTA

Sequence 1400

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTCTTTCTTTTTT

Table 1

[illegible]

Sequence 1401

CCCTTAGCGTGGTCGCGGCCGAGGTA CTCAATCAGATGTTAAATTCCTCAATGTAAATGC
TCTGTACATGCCATCCTACCTCCTGTCTCCCCACCCCCTCACACACACCTAAAAGCACTC
TGGGCAGACAGTAGTTACACATAAACCGCTAAAAGCCTGATTTAACAACGTATATAAACAA
ACTACTTTTATGTGACTACTACTACTCTGGGCATGGTATTAACTATCCCAACCAGAGTA
CCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 1402

CCCTTCGAGCGGCCGCCGGGCAGGTACTTTTAAATATATATTTTCTAATTTTGAAAC
ATTCAAGCTGCGCATAATGGTTCACACCTGTAATCTTGGCTACTTGAGAGGCTGAGGCAG
GAGGATGGCTTGAGGCCAGGAGTTCAAGACCAGCATGTGCAATACAGTGGGACACCTTCT
GTATTTAAAAAAGGAAAGGAAATGTTCAAAATACACAGAAAGTT
GAAAGAATATTAAAGTGAATATCTGCATATTTTCCCTAGGTTACCTGTCACCTTGA
CATGCCCTTCTGAATTGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 1403

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTANAANGGTGGTATTNTAACATTTATTAATAATGCTGGGGGT
TAATANAAACNCAANAACCAAANAATTAATAATGCAAGCTNTTTAAAAATCCCAACT

Sequence_1434

Sequence 1404

CCCTTCGAGCGGCCGCCCGGCGCAGGTACTTTAATTTTTCTATTATGAATTGCTTATT
TGCTTGTCTATTTCTCTAGTAAGCTGCTTTTGTAATTTGTGAGTAATTTATTCTAGGT
ATCAGGCCTCTGGCATGTTTCAAATTTCTAGTGTCTTTGTCAAAGAGAAATTTTAACT
TCAACATAAGTAATTTGTCATCTTTGTCTTTAGTTTTGTGATTTTAAGGACATAATAT
CTATTACTTTAAAGATTGAAAGCTGTATGTATATTCTTCAACTAGCCACCTTATTCT
GTTCTAGAGTTGAATTTCTTAATCTCAAAAAACACACAATAATTTTAAAGTCTTGATCA
AACTCTGTTATCTTCTGCATGATCTATTTTTCAGCATTCCATTAATGAATTGAGAAAAA
GGAGGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 1405

CCCTTTGAGCGGCCGCCCGGGCAGGTACCTGGCTACAGTAAATGCTCAAGGCCCTTTGT
TATTATTTAGATGGTCAAGAATAAATGTTTTCAAGGATCTTCTTTTTGTAGACAACGTG
TGAGTCAAGTTTAGAGTCGTAAATTATCTGCCTGGCAAGATACTTTTTAAATTTAAA
TGTAAGAACTTCAAGGGGATTCACTCCCAAATGTTTATGGACAACTGAAAGGGCATTTA
CACAGATATTACCTTCTACATTTATGTGAGAAAGTGCTTTAAGACACTGTACCTCGGCCG
CGACCACGCTAAGGG

Sequence 1406

CCCTTAGCGTGGTCGCGGCCGAGGTACATACAATAGAGTATTATTCAGCCTTAAAAAGGA
TGAATAATCCTGACATGCTAAATATAAATGAATGTTGAGAACATTATGCTAAGTGAAA
TGAGCCCATCTAAAAAGGCAATACTGTATGATTTCACTTAACTGTGATATCCAGAGTAG
ACAAATTCATAAAACAGAAAGTAGAATAGAGGTTTCCAGGGACTGGGAGTTACTTGATA
TAGAGTTTCAATTTTGAAGATAAAAGAGTTCTGGATATTGGTGCACAGCAATATGAAT
ATACTTAACACTACTGAACTGCACACTTAAAGATGGTTAAGATGGTAAATTTGTAGGT
GTTTCTTACCACAATTTAAAAAAATTTTAATTAAAGGAATTAAAAAATTTACAAAATC
TATTCATCATATTGNGGTTTNCAGTTTATATTCAACACAGCAGTATTTCAAGGTATAGTAATT
AATTACTTTT

Sequence 1407

CCCTTAGCCTGGTGC GCGGCCGAGGTACTAGAAGACCTTCCTCGCCACTCTCTCCACATGA
GAGAGTCAGCTGCCCTTCTCCTGTGCCTCTGCAGGAAGAACTCTCTTGCATGCCACATC
TCAGCTCCTCATTGAGGGATAGTTTTCTTTGATAAGAAACCTGGAGTCCATTACTCTGA

CCTCTCTTTAAATCTATATCCAGAGCCACTAGCCCAGGAAAAAAGCTGGGTGACCCGTAAT
 TTCTCTTCTCCTGCTGCTCTTTTGTCTTTACGCCCCACCCCAACTCCCCTTAAATTTTAC
 AGGCTTATGACAGTTTGTATGTGCTCAGCCAATGAGCAGAAAACCTGGAAAGAATTTCTG
 GACTTTAGCCCACCAAGTTTGTCTGGTTGACTAACCTGCTGAGAGCTAAAAATTGGCACCCA
 TTGCCCCGTGCCTTCAGGCAGTCTCTGGGGCAGGAAGTATGCCACCATCCGAATATCAGG
 CACTGAGTGGGATGTGGGTGATGCTCAGATGACTGGCTAGAGCTTTTGGGGTGGGGTGGG
 GGNTNACTACTATTTTTTTTGGNCANGATCTCTTCCCCCTTTTTTTTTTTT

Sequence 1455
CCCTTAGCTGGTTCGCGGCCGAGGTACCTTTATAGGAACCTCAAATTAATAAAAAAATG
TCTTTTAATGGATGAGAGGGAACCACTATAACATGAGTCCAAGCCCAGAAGACTTCTGTC
TATACAATATTTTTTTTAAATTTGGAGATAAAAGCTTTAAGAACTTTTTGAGTTAATT
ATACTCATAAATGAGTTTCTTTAATAAATTAATTTTATTGTGTAATGTATTATTAC
ATAAAATGTGTTTTGAATCAATGCAGTTTGGGGATGAATAATTAATAATATGTTTAAT
AACTTAGAATCAACTAATAAAAAATTTAGCCACACTTAAGGGGGGAGGAAGTCCCTAGT
TTAAATGTATACTGAGTGGTAGATCAGTACCTGCCCGGGCGGCCGCTCGAAAGGG

CCCTTAGCGTGGTCGCGGCCGAGGTACTATGNNNTNTNNTGTTNCTATTACNNTTAATCCT
TNCITTTNGTTGTGAGCTTGTNAATGCATGTNGAGGATNTGNAGCACTGTCCACTGAGTCT
CTGTG

CCCTTAGCGTGGTTCGCGGCCGAGGTACGAGCCTATAATCTCACCTACTCGGGAGGCTGAG
GCAGGAGAATTGCTTGAACCCAGGAGGCAGAGGTTGCAGTGAGCCGGGATCATGCCACTG
CACTCCAGCCTGGGCAACAGAGCGAGACTCCATCTTAAAAAAAAAAAAAAAAAAAAAAAAA
AGAGAGAGAGAGAAGGAGGGGAGAAAGTGAAGTCATAAGTGTAGACCACTCCTTCTGAGG
GAGAATCCACCCACCTTCTCTAGCTTCTGGTGGTTGCTGGCAATCTTTGGCGTTCCC
TAGCTTGCAAGTGCAGCACTCCAATCCCTGCTTTCATCTTCTTAGGGTGGTCTCCCTATG
TACCTGCCCGGGCGGCCGCTCGAAAGGG

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTGTTTTTT
TTTTTTTTTTTTTTTTTNAAGGGAGNAAGTTTTTAATCCACTTAAAAATACAANAG
CNCAAAATCCACATTTATTTATTGATTTTCGTTAGTTAAATCCTTGAGGGGNACTTTT
TTTTTTTTTTTT

Sequence 1412
AACCTNCCCACCTNTTTTNAANGGGNGGNCCGGNAANNTTTNGGGGGGGCCCNCCCTTNC
TTNANGNATNANGGCCCATTTGGGNCCTTTNCCCGGNANGGCCCGGGGNCNCCCGG
GCCCCCANGNTTNGGGTTNGGGNAATTNGGGGGGNAATTNAATTTNNCCTTTGGGGCC
AAGGGNAAAAATTTTTNCCGGNCCCCCCTTTTTTTTTTNCNCCGGGAAGGGNCCCGG
GGGCCNCCCGGGCCCCCCCCCGGGGGGGGCCCAAGGGGGGTTTAAANCCCGGNCCCC
GG

GNGGGGGGNGGGGTTTGGGGGGAAGGGAAGGTTTGGGCCNTTTTCTTTG
 GGAAAAATTTCCCCAAGGNCCCCCATTTTNCCTTTTTCGGGGGGGGGGTGG
 GCCCAAGGGGGGAATTCCTTAATTTCCGGGCCTTNGGGGGGAAGGCCCAATTTN
 TTTGGGGCCTTTTTTNNTTTTCCCCCTTTNAAAAAGGGGGGAAAAAAAAAAATTT
 AAANCTTTCNTTTTTTNGGGGGTTNANNNAAAAANGGNNCCCCCCCNAAGGGGAAN
 GGGGAAAAAAAGGGAAAAAAANTTTTTTAAAAAATTTNCCCAAGGNCCCCCCC
 CCNCAAAAAAAAAAAAAANNNTNNCCCCCNCNANNNANAAAAANNTATGNTCNNANNN
 NTTNGGGGCCCTTTTTTTTTTTTTTTTNGGGGNGNAAAAAGGGGGNNCCCCC

CCCTTCGAGCTGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGT
TT
TTTTTTTTTTTTTTTTGGGGGGNNTCCCNAAAAANTTTNNTNNGNNAANTTTNCCAAANTTT
NAAAAAAAAATNCNGNNTTNNNAACTNANNNAAAANNNAAAAAATTTTTNAAGNNNCNTNAAA
TNNNNC NAAAAAATTTNTTTTNTNTTTTACNNC NAAAAANNANAAAAANTTTTTTTT
AAAAA

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTCAATTATCTTTATCATAAACATTTTAC

Table 1

ATGCAGCTATTTCAAAGTGTGTTGGATTAATTAGGATCATCCCTTTGGTTAATAAATAAA
TGTGTTTGTGCTAATAAAAAAAAAAAAAAAAAAAGTACCTGCCCGGGCGGCCGCTCGA
AAGGG

Sequence 1415

CCCTTCGAGCGGCCGCCCGGGCAGGCACAACCTTTCAGGATGCAGTTCTTTCATGACCAT
AGTGTTTTTTTTCTTACTCTTTCCTTACTCACAGGATTCACCCATCTGACTCATC
TGTTCTCTCTCCAGACTCTTCTTGATCTTTATTTTTTAATTTACCAGAGAAGAGCAAG
CACGTGAGCAGTGAATAACTTGCAAGGATGCAGACTTTTTATTTGCGATGCTACTTTT
ATAAAACAAACCGTAACATAAATAACTCTTTAATGAAAACCTCAGAAAAATATTAAATCT
ATTCTTAAAGGGTTAGAAAAGAAAAGAACAGCTGTTAGGTTATTTGATTTTCAAGT
TTATCAAATAAAATTCAAATAGAATTGGCAAATCTTTAATGGCATATGAATACTTCTATC
ACTTAGTAATTAATTTGAACAGAGATGTTATTAGGGTCCTTAGTATCACTCCATCCTTTC
CCTCCATCTTTATACAAAAAGAACATACAGAAATTTAACAAAGATATGACTTACTCA
TATGTTTTATAAAAGTATCACCTAGCANGTGTCTTNCATTTAAT

Sequence 1416

CCCTTAGCGTGGTCGCGGCCGAGGTACACGTGTTTTCTGAGTTCTGGGCACAGCTTTAG
CAAATTAATCAAACCTAAGAAGGGGTCATGGGAACACTGACTTGAAGCTGGTTGGCCAG
AAGTCTGGATGAGGCCTGGCCTTACAACCTAGTGTCTGAAGTGGGGGCGAGTCTTGAGA
CTGAGCCCTCTCTCAGCCTGTGGGATCTAATGCTATCTCCAGGTAGATAGCATGAGAATT
GAATTGGATTAGAAGGTGCTCAGCTGGTGGTATCTTCTGCAGAACTGATTGCTTCTTGT
GGTGGGGAGAAATCCCAACATTTGGTCACAGAAGTCTACTGTGTTGATGATTGTGGTG
TAAGAGCAGAGGAAAAGCAATTTGATTTTCTCCACAAGGGGAAGAAAATGTTTCATGAT
TCAACTAATGATTTACCTTTTATTGTAAGGTTATCATGCTCAAGTATTAATGTAGGAAGG
CTTTTTGATGCANAGTGTGTGTGTGTGTGTGTGTATATATGTGTGTGTTGGAGAGG
GCTAACATTAAGGGAATGTATAAGGAAGAAGAAATGGNGNTCTAAACTTA

Sequence 1417

CCCTTAGCGTGGTCGCGGCCGAGGTACAGATCACACCTTTAAGATGGTCCCTCCAAACAA
AGATTCTACAACCTTAGTTATTTAGAATTAGCTTTGAGACTTTGGGCAGGTCACAATTTT
TCTCTATCTCCTATCCTGTAACCTCAGAACCAGACACACTACTAACATCATAACATCCAA
ACTTGGTTTTTGTTTTTTTTAAACAGATAAAAAATGTGACTGGGCACAGTGGCTCATGCC
TGTAATATCAGCATTTTGGGAGGCCAAGGTGGGAAGATCGCTTGAGGCCAGGAGTTTGAG
AGGGGCCTGGGCAACATAATATGATCTCATCTACAAAAAAAAAAAAAGGAAAAAAGG
CAACATTAGTGGGTGTGGTATTGAGCACTGTAGTCCAAGCTACTCGGGAGACCGAGGCA
GGAGGATTGCTTGAGCCCAGGAGTTCAAGACCAGCCTGGGGGAAAGTTTCTAGTGGGCTG
CAAAACAGCATCTAGCCATTGTCTCTTCAATGTACCTGCCCGGGCGGCCGCTCGAAAGG

Sequence 1418

CCCTTAGCGTGGTCGCGGCCGAGGTACTAATTTACACCAACAGGTGAAGTTTCTAGAAG
AGTCGTCAACTGGTAACATGGGATTAGCTGCTAGAGGGACTGAGGACTCTAAAGAGAACA
TAAGCAGCAAATTGCAAGAGCATCTGTAACCTGCTGGGCTAAGGCAGGGGACCCAGGAGGG
AGCAAATCCAGGAATGGGGTGGCTCCCAGGGCCGAGATCCAGACCTCATTAAACAGGAT
TTGGTCACGGCCCACTGGATAGTGGGGAAGCCTGTGGGGTTGTCCATGTGGTGGCTGGCA
AGCAGGGGCCTGCTTCTGGGGGTGCTGGTGGAAATCACTAGACAGTTACCCTGTGGGTG
CCTGCAACACTTTCTGGGCGTTATAAGGAAGATGGCCTCTAGTGTGCTAGTGGAACCTC
TGGAAGCTACCTGGAGGGTGATGCCAAGAGAATTTGCTGGGAAGCCATGCTCTGGGGAAC
TGGTGGAACCTCCTAGGAACTGCCTGTGGGTATGGTGCCACTGAAATTCAGTGNGAAAC
CTCCTTCTGNAATTTTCTTCTCTCTTCTCTTCTCTTCTCTTCTCTTCTCTTCTTCTTCTT

Sequence 1419

CCCTTAGCGTGGTCGCGGCCGAGGTACACATAAGTTTCAATCTTGGCTTTTTAAATTTTAT
GGAAAGACTAAATACATTTGTGTCTATTAATCAAAATATGAATTTAGAAGGAAATAATTT
TGTGTAATAAATTTGTATGTGGTAAATTTTACCTAATTTAAATTTGTTGTTCCATAATTT
TTTTAAAAAGAAAAATTACAGAAATAAGACTTGGGGGGTGGGGGTTGAAAAGTGGTGAAA
GAACATAACAAGTAGAAGAGGATTTCTAAAGCACTGGTCTCATGAAAAAGTTTCATGTG
TGAAGTGGTCCACTGAGATTGAAAAGAAATTTTATACGATATTCTAAAAATTAATGT
TGCTGTCAGGGATGACATGATACAGGACCAGAGTCTGTGTAACAACAAAGTTTCTTAA
AGTATTGATACACGCTTTTAAAAATTTGCAAGAGGTTTAAAGTTTAAATCAAAATCTGTT

Table 1

TAACAGCCATTTTGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCCAGCACACTGG
C

Sequence 1420

CCCTTAGCGTGGTCGCGGCCGAGGTACACCTCAGAGAGGACTTGTATCTAGACCAAGAGG
ACTATGCCCTGTGGGCCAAATCTAGCCCAAGGTCTTGTCTTTGTAAAGTCCCTGTGAGCTA
AGAATAGTTTTTCATACTTTTTAAAGAGAGAGAGAGAGTGTGTGTATGTGTGTGTGTAT
AATGTGACAGAGACTTTATATGGCCCTCAAAGCTTAATTTCTTATTGGCCTTTAAAGTT
TGCTGACCCCTGATGGATGCTATAAAAAATAATTTCAACTATCAATACAAAGAAAACCAAC
AACCAGTGAAAAATGGGCAAAGAACTTCACCGTACCTGCCCGGGCGGCCGCTCAAGGG

Sequence 1421

CCCTTAGCGTGGTCGCGGCCGAGGTACGACGTAACCTCAGACATAGGCTTTAGACGTTCT
CATGCCACCCTATCTTCAAACCCACAGAGAGTTTCATGAGCCAGTCTTGCCCATCTCCAAT
CAGGGAACCTTCTAAATAAAAACTTAGCAATCTCCTTGCCCAAACTTCACCCCATCT
TGGAAGGGAGGGGAGAGAGAATGTTCTGATCTATATCTGATGAGGGCGTGTGGTTGGGAC
CTGAGCATCCTCCTGGTTGGGCTAGTGATC 3GGAGAGAGGGGCTGTTACTCACGACTCCCT
CCAACAGAATACCAGAAACAGGCAGGCAGCTCAGGTGTATGTAAGGATGTGAGGCCAAGA
AACCAGCCCTCACCAGTTACCCCTGTAAATCCTTGCTCTCCCATGCACCTCTACTTTGA
GTCAGAAATGGATTCAATGCAGGCTCAGTTGTTGTATTATGTGAATGAAC

Sequence 1422

CCCTTCGAGCGGCCGCCCGGGCAGGTACCAAATCTCTTATCAGTCAGGGTTCAACCAGA
GACACAGAACCAGTAGGAGACACAAACCCACGCAGGCACAAGAAAGGAGAACAACCAAC
ACGAAACCCAGGGATGAGTAATCGGAGGGGAGCAGCAAGCACAGGGAAAAGATGACTGGG
AGTCAAGAAACTTGGGGTTCAGTCCCAGCTCTGCCCTGTCATTTTCCCTCACCTGTAAAA
CTGGATCAGAAATCTTACAAAAACAAAAAACAAAAACCTCTTCAGTATTTCCCTCAAAC
AGGATCCTCCTCACATCTGTATTTATATTTAAAAATAAAAAACAGAAAAGAAAAAGAACC
AGCATGACATCATTAGGTGTGTGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 1423

CCCTTCGAGCGGCCGCCCGGGCAGGTACATCATAGGACTAGTCACTTGTGCTTTCATGG
ATACTGCCCTGGGTGGGGGTTCAACACTTATAAGTTAGAGAGTTTGAGAGCCAGTGGAA
AGTAAGTGGAAGTTGTTCTGAAATAAGCCCTGGCAATTTTCTGCAATGAAAAGGAGCAG
AGGTCATTTTCTTATAATGCTCAGCCTCAGAGATAGAACACTGCCCGCGTACTCTGGTTC
GGGTTCAAGTGAGAGGCTTTTCATGAAAATCTTAGGATTGAAGAGCTTAAGTTCAGGAT
ATCTCAATGTTCAAGAGCCTGACTAAAAGAAGCCAAACCAAAACCATTTAATGTGAACA
CAAACCTCTTTTCTTTTAGTAAGTTTACTTTTAATACCAGAAGTGAAAGAAAAAT

Sequence 1424

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTNTTTTTTTTTTTTTTTTTTTTGGGTANT
TTTTTTTTTTTTTTTTTCTTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TNGGGNNAACCATNCTTTNTNAANNNTTNTTTNANNCATNCGGGGANAGGNTTAN
ANNNAACCATNTAAANGCATTTTANNTTTTTTNAACCAAATTTTTNAAAAAANAATT
CTGAAAANANNTTTGGGNTTCAAATNAATTTTTTAAANCAAAAAAACTTTCTNCNAA
TNTTANNTTTTAAAAAANATTTAAAAAANGNTTTATAAAGNNGGNTTGAAAAA
NNCNNTNNTTAGAAAAATNANATTCCATTTTTTACNNGNTTNNNGTTTTTNGGTTAAATA
CNNTANCTNGTTCCTNAAAAACAANACCCCTGNCNTTTTTGNGTNATNTAAAAAATTN
AACTTTTTCTNAAATTTTTTNGGNAAAAA

Sequence 1425

CCCTTAGCGTGGTCGCGGCCGAGGTACTACCATCTTAACAATATTAAGTCTTCTGATCCA
TGGCCACCAAATGTCTTTCCACTTATTGGGTCTTCTTTAATTTCTTCAACAATGTTTT
GTAGTTTCCAGAGTAAAAGTTTTATGCTTTGTGGCTAAAGTTATCCTATCAAATTGTTT
TCATGCTATTGTAAATGGGATTGCTTTCTTTTCTTTTCTTTTTTTTTTTCGAGAGAGG
GTCTTGCTCTGTGCGCAAGCTAGAGGGCAGAAGTGCAATCTTGGCTCACTGCAACCTACA
CCTCCTGGGCTCAAGCGGTCTCCTGCTCAGCCTCCCTAGCAGTTGGGACTACAGGCAC
ATGTCACCCAAAAAATAATTTTTGTATTTTTGTAGAGACAGGGTTTACCATGTGCG
GCTAGGAAGGTCTTGATCTCTTGGACCTCGTGATCTGCCAGCTCGGCCTTCCAAAAGTG
TTAGGATTACAGGGCNGTGAGCNGGTTTTNTTTGNTNTTGGTTTNGAAATGGANTTTT
CCCTTTGCTGCCCAAGCCCGGGAANNTGCAAGGGGTGTGNATCTTAACCTCACTGGNAAA

Table 1

CCTTCACCCCTTTTGGG

Sequence 1426

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGCTTCAGGGCCCTGTTCAACTAAGCACTCTA
CTCTCAGTTTACTGCTAAATCCACCTCGACCCCTTAAGTTTCATAAGGGCTATCGTAGTTT
TCTGGGGTAGAAAATGTAGCCCATTTCTTGCCACCTCATGGGCTACACCTTGACCCCCGC
GTCCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 1427

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATATTGCTTAGAGCAGTGCTTTCAGATATGA
ATCATTCTAGAATGGATTATAGAAGGATGGGAGCTTTTAGTATTTAGTAGTTTCCTTTC
TTCTCCCTAAGTTTACAATCCATTTTAAAAAATGAATGAATTAAGTATCTCCGAAACAAA
CTGGCAATTGCTCTGAAGACAAGTTTAGCAATTTCCGTGAAATAATTCTCTGGCTTCGGC
CAAGGCCACTGATTGATTTCTAAGCAAAACAACAAATCCCGTCAGGATCAGGAATGATGG
CAGAGTGGCCCTGTTGGCTTTGTAGCTAAATTGTGCTCAGCCAGAGAAGAACACGACCA
ACAGAGCCCTAAACTGAAGTCCCCAATTCTGTCTACTCTACCGTGCTGCACAAAACCTAGT
ACCTCGGCCGCGACACGCTAAGGG

Sequence 1428

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGTCTTATTTTCAGCCTAAAGAAATGGACAC
TTCTCAGCATAGGCGGACGTGATTGGTTGTGGTCGAATCCTTTTCCTAACCAGGATCCAT
AATATCACAGACAAGGTAATATAGCACTGTGAAGGATGTGTCTTTCTTCAAATGGAGCCA
TGAGAGATGGTGGTTTTTTAAGTTGATTTGATGTTGGATGTAAGTAAGTCCTGTGGGAGA
GAATTTTTTTAAATAAAAAATACTGTTTAAAAGTGCTCTTCTAAGTTGATCTCTACCTT
TTCCCCTCTNCACTTCTAACTGCCCCCACCAGCTACACTTTCCAGTTTGAAATAATGA
ACAATACCTTTTGCTGACAGACCAAAACCTTAATTTCTGTGGGCAAATGANGGGTTTTTTT
CCCCCAACAATGAAACAAATTTTCTTTGAAAAAANTCTTCTCAAAGATGGTTCCTATTG
NAAATAACCCCTCC

Table 2

>Sequence 1

ACTTAATATTTATATCTTATTTTTATTATAATTTATTTATTTAACTATTA
TTTTACTATATTTACCTTATATAATATTTTCATTTCTTCATATTTATAT
TAAACCCNCCNNAATGGCTTTGCTCTGAGCTCNCTCCGGANGGCGGC
CGAGGTACTTTTTTTTTTTTTTTTTTTGGACATACTGAGAGAATTTGG
AATTATATGTTATGGTAGAATAAAGATCGAGGTCCATTTTCTATACATG
AAAATTTAAATATTTAGTTTGGGATTTGAGACTTCTATTAGGCCTCTGTA
TTTCTTTCTAGTTTTTCCCTACCATTTCTTAATCGGAGTATCCAAGCCC
AATCACCTGTATCCTATGTCCTAAAGCATCTGAATTGGTTGTTTCATGT
TTTTCTTCATGTGGAGTGTCTTTTGCCACCCTCTTAGCCTATCTGATCC
CACTTAGCCTCTGAGGTTCTGTTAAGTTCTCACCTTCTTTATGAATTTTC
CCCAGCCATAATGATCTTTTAACTCTTTGAGCTTTTACTATTTATACT
CTTTACCTAACCAACTAAATGGTTTTTGTGAAATGTGAGAAGATATAAAT
ATGAATGGATAAAATACTGTATGTACAAAAATTTTAAATTTTACAATA
ATAGCAATTTTTTTGTGATGGACCTTTTAGGGAATTTTTATTTGGCTTTT
AAGGGATTAGGGTTTATGCCTAATTAATTAATTACCATGCC

>Sequence 2

TTTTCTTAGCTCATCGCGGGCGGCCGGAAGAGCAACCGAGATGAAGGTGA
AGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGAC
TTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCCTTTTGAGGT
CCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTAT
TTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAAT
TGCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCCTTTCTGGGGCGTG
TGATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAATTGTATCCGTA
CCT

>Sequence 3

TTGTCTGTTGCATCGAGCCGGGCGTNCGGAGAGGAGTCTTTACTTAGAG
TCAAGCTGAAGGAGCATCACAACCCCAAAGACTGTTATGTTGTGAAATTT
AGGCTGTGTTTAAATAACTGATGATGATAGGATGAAATAGTAATTTAT
TGATTACTATATCTACTATATGTCCGTAAGATAGCAGGGTCTTTATACTC
GGAATCTCATTTGATCCTCATAGTTTTTATTTGGTTATTATTATCCTCATT
TTACAGATACAGAACTGAGGCTTCAGAGAGGCTGTGTAATCAAGAGTTT
GTATGCCTTTTCATCTGAGGAGGTTGAGGACAATCCCAAGTTAGAAAAATA
AATGTCTTTAGCATTATTTTTCCCTTAATGTTTAGAATATTAATAAGTTAC
TCAGATAATCTATTGGAATTTCTTCATGGCAGGGGGAAGAGGCTAGAGTT
GGTTTTTGGTTTTTTGTTTTTGGCACAGGGTCTCACTCTGTCAACCCAGGCT
AGAGTTTTGTGGTGTGATCTTGGCTTACCGAAGCTTCAACCTTCTGGGGT
TCTACCTCAGCCTTCCAAGTAGCTGGGACTACAGGGGTGCATCAACACGC
CCCCGTGTACCTCGTCCGTTTAAAAATG

>Sequence 4

TGAGCCGTATGCATAGAGNCTGGCGTCCGAGGTA CTCAAGTTTCCTTATCT
ATAACATGGGGATAATATTCGTAGCTACATCGTTGTTATGAGGATCAATA
TCTGTAAAGCTCTTAGAACATGCATTTTTCTTGTACTAAATTGTAAGGTC
TGGCAGGCGCGGTGGCTCACACCTGGTAATCCAGCACTGTGGAAGGCTG
AGGTGGGGGCAGTGGGGAGCGAGGGGTTGTTACTACTCCAATGTAAGTGC
TTTCTCAGAAATTAAGGCAAAAAGTCTTACTGACCATGTAAAGGAAATCC
AACAATTATAAACAGTCTCTGCCTTTAAGGAGCTTATAGTCTAGTTAAGA
AACCAGACTTAAACATATGAAAAGTTAAACATTGGTCAGGCACAGTGGCT
CATGCCTATAATCCCAGCACTTTGGGAGGCCAAGGCAGGAGGATCACCTG
AGTGTAGGAGTTTCGAGACCAGCCTGTCCAGCATGGAGAAACCCCATCTCT
ACTTAAATACTAAACTAGTTTGGGCATGGTGGCGCCTGCCTGTGATCCCA
GCTACTTGTGAGGCTGAGGCGGGAGAATCATTTGAACCCGGGGGAAAGG
TTATGGTGAGCTGTGACCGCCCCATTGCC

>Sequence 5

GGCGGCCGCCCCGGGCAGGTACCATGGAAACCACTCTTTCATTGAAAGGA

Table 2

AATTAGGTTGAACCTCCAGGAGCCCGTCAGAGTCTGAGGAGAGGCTGGCT
TGATGTCTAGATACGACGACAGCAAGGCTGCTTAGAGCTAACAGCGCATT
GCCTTTCACTACCGGACTCTCCT

>Sequence 6

CATCTGTGCCNNATTTGAAATGCGAGCTTCACCGCGGTGGCGGCCGCC
GGGCAGGTACCTATGACCATCTTACATTATTTTATGGGTGGGGGGCATT
GGCTGTGGAATGTGGGCAGTAACTGCACAGTCAGTAACCGTGTGAGTAA
CGGTTGTTGGCATCCCCATTCTGGCACTCCTCCTTAGGTCTCACCTAC
ACGCTGGTTTGTGGGCGGAGGGGCGAGGTTGTTGCGTGGGGTGTCCGGGCA
CTGGCTGTGCATGCCTTCTCCTCTTCTGTCTCTTGGCCACCTTTTCAA
AAAGTCACCAAGTGACCAATTCTCCAGTGTTCCTTTGGGACTCAATGCCT
TGGGCTTGGCATTGGGTAAAGCCGACTGGCCAGTTTCATTCTGACCAGCT
CTATAGTAGTCCGGTGTGGACCTCTGCCCTCCCTGCTCTGCGGAAGCTTC
CTCAGCCTTTGCTTCTCACTATTTACTATTTGCGGGGCTGGGGGTACCC
T

>Sequence 7

GGGCGATTTGCAGGCCTCTCCGCGGTGGCGGCCAGGTACGGATCAATTCC
GCTGAGTTAGATTCCAAATTCTAACCTCTCCATCACACGCCCCAGAAAGG
ACAGTAGCCAGCTTCTCTGGATGCTTTGCCAAGCAATTGACTCCATCACG
GTGACCATCCAGCGAAGCAAGGAATGGTTTGTCAAATACTCGTTCCAGTT
TGGTAGCATTTAAAGCTCTTATATATTCTCGTGGGACCTCAAAGGATGT
AAAGCAGGATCATAGTTTCTTGGAATCTCTGTAAGTCCAACCTGGTTTC
GCGGACATAATTGTCCGGATTCCGGCTCAGCATCTTCACCTTCATCTCGG
TTGCTCTTC

>Sequence 8

GAAATGTTAGTCCACTCACGTGGCCGAGGCGACCGGATGAGCAACCGAGA
TGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACC
AAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCC
TTTTGAGGTCCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGG
AACGAGTATTTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGAT
GGAGTCAATTGCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCTTTC
TGGGGCGTGTGATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAATT
GTATCCGTACCT

>Sequence 9

TTTCTGTTGTCTGTCCGCGGGGCGGCCGAGGTACCACATGCACTGATAGC
TCTCTTTGTATGAACAGAGCTGTGGCAGGCCCTATGCCAGGGAGAAAGTA
AGATTGGAAAAGAGCTTACCAAGGAGGTGGCATTTCGACTGTGCTTAAGG
GGCAAGAAAAACGCTTCCAATCAGGAGCCACAAATGCTTGGCTGAAGTG
CTACTGCTCTTTCATCCTGGAGCTGGAACAGACGTCACCAGTCAATCATG
ATGGCTGTGGGTGCACTGGCTAACATCTATAATCCAGCACTTTGTGAG
GCTGAGGGTGGGAAGATTGCTTGGGGCCAGGAGTTTGAGACCAGTTTGGG
CAAAATTGCAAGACCCTGTCTCTGCAAAAAAATATAAAATGTAGCTGAGTG
TGGTGGCACCTGTAGACCCAGCCCCAGCTACTCGAGAGGCTGAGATGGGA
GGATCGCTTGGGCCTAGGAGTTCGAGGCTGCAGTGAGCTATGATTGCACC
ACTGCACTCCAACCTGGGTGACAGAGCAAGACCTGTCTCTAAACCATT
AATTAATCAAAAAAAAAAAAAAAAAAGTACCTGCCGGGCGGTCGTT

>Sequence 10

GGTGCCTTACCGGGTGGCGGCCGAACATCCATGTTTTAACTAGCACAGA
CAAAACCTATGTGTTACTATCAAAATAAAATTTAGAAAAACAATTTCTT
ATAAAATTTTCTGTTTGTATTTGGACTACATAAACTGGCTTTAAATTTGA
GAAATATGCCCTAAACCATAAGGAAAAAGCCAACAGAAAGAACAAAAAG
ATCACAGCAATTAGGCCGTTCTATTCAATTTTGCCATGAGCTAAAAATCA
CATTCTTCACAAAGTAAATTACGCCCTGTTTTTTATTCTTAAGCACTAGG
GTTAGGATTGTGATCTGAGCTTTACTAAATCGGAAAAAGAAATCTCAATT
ATAGAACATTTAGTTTATTATACCTTAATGCCCGGAGAGGTAATATTTT
ACTTTAAATGCATAACCCATGTGACATGCTAGGTCTTCCAAAAC

Table 2

>Sequence 11

CGAAAGACCCTATCAGGGGCGGCCGCCGACAGCTACGCGGGATTGCTGGC
CTGGTTCTCCAGGGAGCTGAGATCACTGAAGCTGTGGTCGCTGCCGTGAT
GTGGAGGAGGCAGAGCTCAGATAGAAAAGGAGGGAGTGACACTCAAGCTG
CAAGCAGTGACAGTGCCAGGGCTCTGATGTGTCTCTCACAGCTTGTAAG
GTGTGAAGACAGCTTGCCCTTTGATGTGGGACTGGAGTAGGCAAAGAGTTG
GTTCCATGCCCTTCCCCTTTGGTGGACCTTGGAAAGAACCCCTGGACTTT
TGTTTTCTGCCAAAAGGGCAACCTGGCAATGATGTTCTGATGGTTTCGTC
GTTAGGGCCATAAATGNNTGTAGGGAGGGTGGGGAGTAAGTAGGAACCCG
GCAATCCGGGAATCGCATCAACCCATAGGGCCCCCTTGATTTGTCTAAAC
GACCTGAACCCCTTGGTTGCCTTCAATTTGACTAACAAATTGTAACCTTA
TTCTCCAGTTTCCCCAGGAGAACCGGGGGCGTTGTACCAACCCCCCTT

>Sequence 12

AGGTACTTTTTTTGTTTTGTATTTTTAGTAGAGATGGGGTTTCACCGTGT
TGGCCGGGCTGGTCTTGAACCTTGATTTCAAGTGATCCGTCCACCTCAG
CTCCCAATGTGCTGGGATTACAGGTGTGAGCCACCATGCCTGGCCTTTT
TCTTTTTTTTTTTAAACGAAAAAATGTTTTTAATTGACAAATAAAAAATG
ATGTATATTTATGGTGTTTTTTCTCTTTTGCATCATCAGTCTCTTTCTCA
TCACTGAAACCTACAAATATTTAAATCTTTCCATTAAAAAAATTTTGC
TGATCATTTCAACCTCTTCAAATTATTAAGAGATACTTACTTTGTATGAAA
AATTTTGTCTGAGATGTATAATCCATTTTTTCTGGAAGAGAGTCAGTT

>Sequence 13

TGGGGTTGCTTNCCATCACTTAGGGCGAATTGCGTCCGAGGTACCAGGTG
TCATTCTGCAGCAGGATTTAACAGATGCAGATCTGGCCCCAGTGTGAGC
ATCTGTGTTAATGGTATCAGACTTAAAGAAGGAAAGACCTGATTTGACTG
CTGTTGGTTTGGTAGTGTCCCTGATCCGGAGCCAGTTTGTGGGAGGGA
GTCCCAAAGCAGGTTTGTAGCTGTGGTAATGACCGAGTTGATCCTAGAAGA
CAAAACAGTAGAATCGTACCTGCCCCG

>Sequence 14

CTTANNTTGCTGAGACTTCTATCGCGGTGGCGGCCGAGGTACGGTATTCT
CTTAAACAAGAGCAAGCCCATGATGATGCCATTTGGTCAGTTGCTTGGGG
GACAAACAAGAAGGAAAACCTCTGAGACAGTGGTCACAGGCTCCCTAGATG
ACCTGGTGAAGGTCTGGAAATGGCGTGATGAGAGGCTGGACCTGCAGTGG
AGTCTGGAGGGACATCAGCTGGGAGTGGTGTCTGTGGACATCAGCCACAC
CCTGCCCCATTGCTGCATCCAGCTCTCTTGATGCTCATATTCGTCTTTGGG
ACTTGGAAAATGGCAAACAGATAAAGTCCATAGATGCAGGACCTGTGGAT
GCCTGGACTTTGGCCTTTCTCTGATTCCCAGTATCTGGCCACAGGAAC
TCATGTCGGGAAAGTGAACATTTTTGGGGTGGAAAGTGGGAAAAAGGAAT
ATTCTTTGGGCACGGGAGGAAAAATTCTTCTTAGTATTGCATATAGTCCT
GATGGGAAATACCTAGCCAGTGGAGCCATAGATGGAATCATCAATATTTT
TGATATTGAACTGGAAAACCTTCTGCATACCCTGGAGGCCATGCCATGCCC
ATTCGCTTCTTGACCTTTTCCCGGGCTTCCAGTTCTTGCAATTGTTTGA
TGATGGCTACCATAAGATCTATATGGCC

>Sequence 15

GAGGTACTGCTCCCTGCACGATCCAGTCAGCCCCTGCCCGGCTGGTTATG
TAACAAACAAGTCTGTGTCTGTGTGGAGTGTTCAGGACGAGTGGAATG
ACTGTTTCCAAGTTCATGGCAATTCAGAAGGCCCTTCAGCCAGACTGGTT
CCAGTGCCTCTCCGATGGAGAAGTATCTTGTAAGGAAGCAACTTCCATAA
AAAGGGTCAGAAAGTCTGTTGACCGATCACTTCTTTTCTGGATAACTGT
CTGCGGCTGCAGGAAGAGTCAGAGGTTCTTCAGAAGAGTGTGATCATTGG
AGTGATTGAAGGTGGAGATGTGATGGAAGAGAGGCTGAGGTGAGCACGAG
AGACAGCCAAGCGGCCTGTGGGTGGCTTCCCTTCTGGATGGTTTTCAAGGA
AATCCAACAACCCCTGGAGGCTAGACTACGCTTGCTGTCATCAGTCACTGC
AGAGCTGCCGAGGACAAGCCAAGGCTCATATCTGGTGTAGGCGGCCAG
GGGAGGTGCTCGAGTGTATTGAAAGAAGAGTGGGACTTATTTGAGAAGTT
TTCCCTTATCAAGTAACAGAGCGGGGGTGTGCCCTGACTTTAAGTTTGT

Table 2

TACCAGCCCAATTCCGAGAGACCCTCTCCATCAAAGG

>Sequence 16

TGGTCGTTGATTCTCCCGCGGTGGCGGCCGCCCGGGCAGGACGCGGGAAG
AGGTAATTTTAATGCCATTTTCATGGGACACTTGGGAGCTAGATTAGAAG
AAGCCAAGACTAGAATCGGGGAGATGAGTTGCAGAGGGAAGTGGTGAAGG
TCTGAAGGAAGGTAGGAAAAGGTCGGACACATTCCAGACATATTTAGGGG
TGGAGGTGGTTGGATATGGGGAGTTAAAGGGGAAGGAATGTGGGGTGAT
CTGGGTGGTGAAGTCAGTCGGTATTGGTGACTTGTAAATCATTTTCGGTTGG
AAAACAGTTTGAAGTGTGCGCTCTTTCATATTTTAACTTTGGAGCCTCTCG
CCTTTCTAATTTTGTGATTCTCATTTTACTGGTTCACTTTTGGGGTTA
TCAGAACCCTCCGTTTTTAAAAATTTCCCGGTTTCCAAATTTCCCTTCC
CTTAAATATTGTTCAATTTGGCCCTTTTGTAAATATTTCTAAAATTTTCC
ATTTTCAATATTTGGATGCTGTGAAATTTTAAATAAAATATCTGTGG
CAAAATTATATTGTTTACCATATCAGTCATTGGGGTTCCTTGGCCCTCAT
ACATTCTATACCCCTTTGGCC

>Sequence 17

GGGAGTCTGTGCTCATTCCGGGTGGCCGGCCGCCCGGGCAGGTGACTTTAG
TCCTCACTCTGTGGGCAGGGGCATTACAGCATAGGGGTCCCTTTTGTGAG
GGATTTATGATGGCATCACACGAGGATTCAGAGAGCATGAATTGAAAAA
TACATATGATTGGCTGGGCGTGGAGGCTTATGCCTGTAATCCCAGCACTT
TGGGAGGCTGAGGTGGGTGGATCACCTGAGGTGCGGGAGTTGAGACCAGT
CTGACCAACATGGAGAAACCCTTTCTCTACTAAAAATACAAAATTAGCCG
GGCGTGGTGGGCACATGCCTGTAATCCCAGCTACTAGGGAGGCTGAGGCAG
GAGAATTGCTTGAACCTGGGAGGCGGAGGTTGCAGCGAGCCGAGATTGTG
CCACTGCACTCCAGCCTGGACAATAAGAGCGAAACTCCATCTCAAAAANAA
AAAAAAAAAAAAATGGTACCTT

>Sequence 18

TGGCGATCGAGACCTNACCGCGGTGGCGGCCGAGGTACGATTCTACTGTT
TTGTCTTCTAGGATCAACTCGGTCAATTACCACAGCTCAAACCTGCTTTGG
GACTCCCTCCCAAAAACCTGGCTCCGGATCAGGGAACACTACCAAAACCAA
CAGCAGTCAAATCAGGTCTTTCCTTCTTTAAGTCTGATACCATTAACACA
GATGCTCACACTGGGGCCAGATCTGCATCTGTTAAATCCTGCTGCAGGAA
TGACACCTGGTACCTGCCCC

>Sequence 19

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTATTTTTTTTTTTTTTTTTT
TTTTTTTCCCCGGGAGAGGAATTGGGAAGAGCAAATTGCTGCTGAAAAAT
TTCTACATTGATCCAGACAAACAAGTTAGAGCAGGCTGAAAAAGAACCTT
TGGTGTTTTTACTGTGTTCAACCAGATCAACTGGAAAAGTATAGATACCT
TAATTAGCACTGTGCTCTGTGGGATTCTGGTCAGCCTGGGCCAGTGTTT
TTTTCCCTGAACACGCTGAAAGGGGAGCTCATAATGACTGCTGTGCAG
GTGGGCGGGGAGGGGGCTTCCTATTTGATTTAGTGGCTGATCAATGCCAG
TTACCAATTATTGGTAGCCCCATTTATACATGGTGAAAAAAAGTACCT

>Sequence 20

TGGGGTGTTGGCTGGTAGCGCGCTTCGGCCGAGGCACCACAATTTTTTTA
AGTTCTAAGGTAGCTTTTCTCAAAGAAAACCATTTTCAGGGTGTCCATTAAA
AGAGCATCTGCGAATTGTTTTTGCAGGGACTCCTAATCAGTCAGGAGAAG
TAGAATGTAAGCAAAGTCACAAACCTCCCGTAAGAATTTGGTTCAACAGG
ACACAGCTCCTCTCTTATGAAGGGATGAGAAGCAGACCCCAAACCCAGTG
CCACAGTCTCCCTGGAAACAGCAGCAGGCTTGGGGAATGCTTCCAAAAGG
CTATGCCATTCAAGGTCTCAGGTTTTTTGGTTAAAAATACAACTTAGGCC
AACTGCAGTGGCTCATGCCTGTAATTAATTCCAACCTCTGGGAGGCCCGAG
CGGGTGGATCTCCTGGGGTCAGGGGTTTGAAGCAGCCTGGCCAACATGG
TGGAACCCCATCTCTACTAAAAATCCCTGTGGGTACATTTAATGAGGAAA
AAAAGGTCCTTGGCCCGGCCGGCGGTTTAAACTAAGG

>Sequence 21

TGGGGAACGTTGTTGACTCCGGGTGGCGGCCGAGGTACGATTCTACTGT

Table 2

TTTGTCTTCTAGGATCAACTCGGTCAATTACCACAGCTCAAACCTGCTTTG
GGACTCCCTCCCAAAAACTGGCTCCGGATCAGGGAACACTACCAAACCA
ACAGCAGTCAAATCAGGTCTTTCCTTCTTTAAGTCTGATACCATTAAACAC
AGATGCTCACACTGGGGCCAGATCTGCATCTGTAAATCCTGCTGCAGGA
ATGACGCCTGGTACCTGCCCCG

>Sequence 22

TTATGTACGTGCGACTCACCGCGGTGGCGGCCGAGGTACAGAGTAGAGAGA
GTTCTGCAGGGATGAAGTGGGAGACGTTGATAGGACCAGACCAGACCAGG
CCTTGTAGGCCATGGAAGGACTTTGGATTTTACACCAAGTGCAACAGGTA
ACTGCTGGAGGGAATTCAGCAAGAGAGTGACAGGAGCTGATTGACAATTT
GAACGCCCACTCTGGCTGCCATGTGGCAAATAGATTGTAGGAAGAAAAGA
AGAAAAGGAAGAGAGCAGTTTGGGAAGCTACTACTGTTGTCCCAGAAATAT
GTAATGGTGGCTTGGCCAGGGTGGTGGATGNNCATAATTTTTTTATTGTG
TGAAATTTATTTCTTATTAATTTTTGAAACAACCTACTAAGTCTGAGTA
TAAATTTAAAGACTGGGTTTCCAAAATATGATTCCTTATTTCAATTGAAT
GTTATAGCTCTAATTGTTCTTTTTTTTTTCTGATACATTATTTTCTAC
TATATTACTAAATCTTAAATCTCGGTTAGAGTCTGATATATAATGGGTC
CATTTTAAAGTGTCTCTCTTTTTTACAAATTGCGTAGTAGTTTGTTTTTT
TACTTTTAATTAATAAGTCTTTTAATTTTTTATTTTTT

>Sequence 23

GGGTGATGAGACTTCATCGCGGTGGCGGCCGAGGTACACAGTAGAGAGAG
TTCTGCAGGGATGAAGTGGGAGACGTTGATAGGACCAGACCAGACCAGGC
CTTGTAGGCCATGGAAGGACTTTGGATTTTACACCAAGTGCAACAGGTAA
CTGCTGGAGGGAATTCAGCAAGAGAGTGACAGGAGCTGATTGACAATTTG
AACGCCCACTCTGGCTGCCATGTGGCAAATAGATTGTAGGAAGAAAAGAA
GAAAAGGAAGAGAGCAGTTTGGGAAGCTACTACTGTTGTCCCAGAAATATG
TAATGGTGGCTTGGCCAGGTGGGTGGNTNNNTNATATAAATTTTCTTTT
TTACATTGTAACTCGTCTACTATTTCTCAACCAAATTATATTGGTCC
TCATTTAAAAATAAGAACTAGTTCCCAAAAATGAATATATCTAAGGTCTTA
CTTACCGGTATGAGAACCATTTTAACCTGTTTGGCCCGCTTATATTTATT
GAATTCATCTTATTTTGCCTGAATAGAACAAATTCGCTTCTGGGGGCCTT
ATTGCTTATTTTCTATTTAATTGTATTCCGTCATTCAATAGTGTGGGCC
GAGGGTCAGCTTTTGTCTTACTGTTTAAGTTTTTTTATCCTCCTAATATTT
TATTGACAAAAAAT

>Sequence 24

TGGAGTATCCTCACCGCGGGGCGGCCGAGGTACAAAAAAGCACAGCCTG
GCTCTGGGTAGAGACATGCTGACTGATGAGATCACCAAGGCAGCTGCAA
AGGAGAGTCCGGTAGTGAAAGGCAATGCGCTGTAGCTTAAGCAGCCTT
GCTGTGCTCGTATCTAGACATGAAGCCAGCCTCTCCTCAGACTCTGACGG
GCTCCTGGAGGTTCAACCTAATTTCTTTCAATGAAAGAGTGGGTTTCCA
TGGTACCTGCCCCG

>Sequence 25

TGGGGNATGTATCAGCTCCACCGGGTGGCGGCCGCCGGGCAGGTACGCG
GGAGGCACATTCTTTTCTACGTGAAGAGTTTGTAACTGAACTTTGTTT
TCAGTTCGGGCTCCAGCCATCCTGGGGTAGCTTGCCAAATAGATGAATCCC
ACTCGTTTGACCCATGACGCTCCTTCTTTTCAATTTCTCCCTCTTTCCCCA
CAGCAGTGCATGTCCACCATAACCACTGAGAGTCTGTGGAATCTAATTTT
CTGTTATACCTTCTTCTTACACTCATTTCCTGTCTTTATTATGATAGT
CTAACTTTTCTCCTCAAAGGGATAGCTGCCTTGCTTTTCATGAAAACACA
CTTTTCTAATGGGGAATTAAGAAGGCCTTTCCATTTTAAAGCCCCATG
CCTTGACAGAATTTATTAATAAATAGGGCCTTTCAAAGGGGAAACCGTTC
CAACATGCCTACAGAATGTTTTATAACCATGAAATATTTACTGGCGTTAA
GTCCAAAATGCTGACTATCCTGGTCCGTATCCTTCGACCACTGTTAATG
TATAATTTTGCAGGTGAATGGTC

>Sequence 26

TGGGATGTGCCTCATCGGGGGCGGCCGAGGTACGGATACAATTCCGCTGA

Table 2

GTTAGATTCCAAATTCTAACCTCTCCATCACACGCCCCAGAAAGGACAGT
AGCCAGCTTCTCTGGATGCTTTGCCAAGCAATTGACTCCATCACGGTGAC
CATCCAGCGAAGCAAGGAATGGTTTTGCAAATACTCGTTCCAGTTTGGTA
GCATTTAAAGCTCTTATATATTCTCGTGGGACCTCAAAAGGATGTAAAGC
AGGATCATAGTTTCTTGGAACCTCTCTGTAAGTCCAACCTGGTTTCGCGGA
CATAATTGTCCGGATTCCGGCTCAGCATCTTCACCTTCATCTCGGTTGCT
CTTC

>Sequence 27

CTCCCTCATATTACTATTCTATCTCGTAATTATTGTTAATTAATTTACAA
TATTTTATCAATTAGTAATCTTTTCTTAATTTAACAANNANCNCANNNTT
GTCTGTTGTCGATCCGCTTCCACGCGGCGGCGGCGGAGGTACGGATACAA
TTCCGCTGAGTTAGATTCCAAATTCTAACCTCTCCATCACACGCCCCAGA
AAGGACAGTAGCCAGCTTGTCTGGATGCTTTGCCAAGCAATTGACTCCAT
CACGGTGACCATCCAGCGAAGCAAGGAATGGTTTTGCAAATACTCGTTCC
AGTTTGGTAGCATTTAAAGCTCTTATATATTCTCGTGGGACCTCAAAAGG
ATGTAAAGCAGGATCATAGTTTCTTGGAACCTCTCTGTAAGTCCAACCTGG
TTTCGCGGACATAATTGTCCGGATTCCGGCTCAGCATCTTCACCTTTATC
TCGGTTGCTCTTC

>Sequence 28

TGGACTGTGCGCCTTTCGCGGGGCGGCGGAGGTACTCAGTTTCCTTATC
TATAACATGGGGATAATATTAGTAGCTACATCGTTGTTATGAGGATCAAT
ATCTGTAAAGCTCTTAGAACATGCATTTTTCTTCTACTAAATTTTAAGGT
CTGGCAGGCGGTGGCTCACACCTGGAATCCAGCACTGTGGAAGGCTG
AGGTGGGGGCGAGTGGGGAGCGAGGGGTTGTTACTACTCCAATGTAACTGC
TTTCTCAGAAATTAAGGCAAAAAGTCTTACTGACCATGTAAAGGAAATCC
AACAAATTATAACAGTCTCTGCCTTTAAGGAGCTTATAGTCTAGTTAAGA
AACCAGACTTAAACATATGAAAAGTTAAACATTGGCCAGGCACAGTGGCT
CATGCCTATAATCCAGCACTTTGGGAGGCCAAGGCAGGAGGATCACCTG
AGGTACAGGTTCCGAGACCAGCCTGACCAGCATGGAGAAACCCCATCTGT
ACTAAAAATACAAAAGTGTGGGCATGGTGGCGCATGCCTGTGATCCCA
GCTACTTGAGAGGCTGAGGCGGGGAGAATCACTTGAACCCGGGAGGTCTAG
CGGCCGACCGGGCAGGACGCGGTGAT

>Sequence 29

TGGATTATGTTGAGCTCCCCGCGGTGGCGGCCGAGGTACTCAGTTTCCTT
ATCTATAACATGGGGATAATATTAGTAGCTACATCGTTGTTATGAGGATC
AATATCTGTAAAGCTCTTAGAACATGCATTTTTCTTCTACTAAATTTTAA
GGTCTGGCAGGCGCGGTGGCTCACACCTGGTAATCCAGCACTGTGGAAG
GCTGAGGTGGGGGCGAGTGGGGAGCGAGGGGTTGTTACTACTCCAATGTAA
CTGCTTTCTCAGAAATTAAGGCAAAAAGTCTTACTGACCATGTAAAGGAA
ATCCAACAATTATAACAGTCTCTGCCTTTAAGGAGCTTATAGTCTAGTT
AAGAAACCAGACTTAAACATTGAAAAAGTTAAACATTGGCCAGGCACAGGG
GCTCATGCCTATAATCCCAACACTTTGGGAGGCCAAGGCAGGAGGATCAC
CTTGAGGTAAGGGTTTCAGACCCGCTGACCACATTGAGAAAACCCCTTT
TTTCTTAAAAATCCAAACCTGTTGGCT

>Sequence 30

TGGGGATGTTGCAGCTCTGTCCGCGGNGGCGGCCGAGGTACTCAGTTTCC
TTATCTATAACATGGGGATAATATTAGTAGCTACATCGTTGTTATGAGGA
TCAATATCTGTAAAGCTCTTAGAACATGCATTTTTCTTCTACTAAATTTT
AAGGTCTGGCAGGCGCGGTGGCTCACACCTGGTATCCAGCACTGTGGAA
GGCTGAGGTGGGGGCGAGTGGGGAGCGAGGGGTTGTTACTACTCCAATGTA
ACTGCTTTCTCAGAAATTAAGGCAAAAAGTCTTACTGACCATGTAAAGGA
AATCCAACAATTATAACAGTCTCTGCCTTTAAGGAGCTTATAGTCTAGT
TAAGAAACCAGACTTAAACATATGAAAAGTTAAACATTGGCCAGGCACAG
TGGCTCATGCCTATAATCCAGCACTTTGGGAGGCCAAGGCAGGAGGATC
ACCTGAGGTCAGGAGTTCGAGACCAGCCTGACCAGCATGGAGAAAACCCCA
TCTCTACTAAAAATACAAAAGTGTGGGCATGGTGGCGCATGCCTGTGA

Table 2

TCCCAGCTACTTGAGAGGCTGAGGCGGGAGAATCACTTGAACCTCGGAGG
TCGAGCGGNCGCCCGGCAGGACGCGTGGGATGN

>Sequence 31

GACTGATGTCGACTCCCCGCGGTGGCGGCCGAGGTACTCAGTTTCCTTAT
CTATAACATGGGGATAATATTAGTAGCTACATCGTTGTTATGAGGATCAA
TATCTGTAAAGCTCTTAGAACATGCATTTTCTTCTACTAAATTTTAAGG
TCTGGCAGGCGCGGTGGCTCACACCTGGTAATCCCAGCACTGTGGAAGGC
TGAGGTGGGGGCAGTGGGGAGCGAGGGGTTGTTACTACTCCAATGTAAC
GCTTTCTCAGAAATTAAGGCAAAAAGTCTTACTGACCATGTAAAGGAAAT
CCAACAATTATAAACAGTCTCTGCCTTTAAGGAGCTTATAGTCTAGTTAA
GAAACCAGACTTAAACATATGAAAAAGTTAACATTGGGCCAGCACAGTGG
CTCATGCCATAATCCCAGCACTTTGGGAGGCCAAGGCAGGAAGATCACC
CTGAGTAAGGAGTTCGAGACCAGCCTGACCAGCATGGAGAAACCCCATTC
TACTAAAAATACAAAACCTAGTTGGCAATGTGG

>Sequence 32

TGGGATGTGCCCCCTCCGGGGGCGGCCGAGGTACGTATGCACTTGCTTGCC
ATCTAAGCAGGGACAATGGCAGTTCATATCATGATGTTACTTTGATTCTC
TGACCAAACCTGGCCTGTGAGCACCTGGGCCTTTCTTCTCTGTCAAAGG
CCTTAAGACAGGTTTACCCTGTAGCCAGGTCTGGAAGACAGAGCTGGGTT
AAAGCTGGGTGGGAGAAGTGAAAAAGGTCAGGTTTACATTCCTACGCGGA
AAAGGATGTAACACGGGGCCACATCCTATGCCCAATCCCAAGGCAGGGAG
GCAGGGAAGTGGCTGCCAAACCTGTTGTAGGAGAGTAATAAATGACTTGA
GAGTAAGCCTAAGCAAACCTCAAGTGGGAAGGGGAGTGGGCTGTAAATAG
TTTAAGAGACTCTCTCAGGAAGTCAGCGTAATTGATGTGTAGAAAGGTAA
CAGTCAACAGTTCTCCTAACAAGACAGCTTCAAAGCAGCAGCTATAGTGG
AGCATTCCTGAGGCCTGCTGCAGATCAAAGCATGAATGTGCAGACTGGTC
CTCTTGCCAGCGTTTCTTCAAATCTTTGCACATGTTATATTTTAGAGG
CAAGTTCAGTTCTAGAGGAGCTGGCCTGC

>Sequence 33

TGCCTGATGTTTGATCGAGTTCCCCGCGGTGGCGGCCGAGGTACGTATGC
ACTTGCTTGCCATCTAAGCAGGGACAATGGCAGTTCATATCATGATGTTA
CTTTGATTCTCTGACCAAACCTGGCCTGTGAGCACCTGGGCCTTTCTTCC
TCTGTCAAAGGCCTTAAGACAGGTTTACCCTGTAGCCAGGCTCTGGAAGA
CAGAGCTGGGTAAAGCTGGGTGGGAGAAGTGAAAAAGGTCAGGTTTACA
TTCCTACGCGGAAAAGGATGTAACACGGGGCCACATCCTATGCCCAATCC
CAAGGCAGGGAGGCAGGGAAGTGGCTGCCAAACCTGTTGTAGGAGAGTAA
TAAATGACTTGAGAGTAAGCCTAAGCAAACCTCAAGTGGGAAGGGGAGTGG
GCTGTAAATAGTTTAAGAGACTCTCTCAGGAAGTCAGCGTAATTGATGG
GTAAAAAAGGAACAGTCAACAGTTTCTCAAGACAGTTTAAAGCAGCA
GTTTTGGGGAGCATTCTGAGCCTGGG

>Sequence 34

TGTTACGATGCTCATCGGGGGCGGNCGAGGTACCAAGTTAAAGTCTTCTAG
CCTGTATCCCCACTCCTTTTGGCACTTGCAAATTCGGTAGCCAGTTAC
CCAGAGGGAGGCATAGGAGGGAAAACGAAGACTGAAAAGGGCTAATATGA
GTTTTGTCTCTTACAATTTATCTGCATCTTATCCTTCCCCCACCCCCAT
CATTAATCATTAACATTCTATCCAAATAGGATGCCCTTCTGTGGAAC
GCATATTTGGAACCATACTGCCTGTTTAACTTATGCACTCCACTGGGAA
CTTACAGTATCTGTTTCCACAATACTTGCACTCATATCAGTTACAACCG
CTGGGTGTGATTGGTTCAAAAGGACCTACCTACAAGGTTATATCAATCC
ATTGTCCAATTTGAGAGATTTTCTGAATCCAGTTAAAATAATTTTGG
CTACACCTGGGGACACTTCCCAGGACAACAATGACTTGTAGTCTAGTGCC
CAAGAAAGCCAAAAAGGCCCGCAACCTTGGTTGCCACAGATCCCCAAC
AGACAGATTCTAAGGGAGAAGAGAGTTTATCAACTAACCTCACAGG

>Sequence 35

GGTATGTTGGNCANTTTAGAAGCCCTCTCCGCGGTGGCGGCCGAGGTACG
GATACAATCCGCTGAGTTAGATTCCAAATTCTAACCTCTCCATCACAG

Table 2

CCCCAGAAAGGACAGTAGCCAGCTTCTCTGGATGCTTTGCCAAGCAATTG
ACTCCATCACGGTGACCATCCAGCGAAGCAAGGAATGGTTTTGCAAATAC
TCGTTCCAGTTTGGTAGCATTTAAAGCTCTTATATATTCTCGTGGGACCT
CAAAAGGATGTAAAGCAGGATCATAGTTTCTTGAACTCTCTGTAAGTCC
AACTTGGTTTTCGCGGACATAATTGTCCGGATTCCGGCTCAGCATCTTCAC
CTTCATCTCGGTTGCTCTTC

>Sequence 36

CTAATTACTCTATCGATTTCTTATAACTCTCATATGATATATTTGTTTCAT
CTTATTCTAGCTTCAATTAGACGGTTTACTATACTTTTTATTCTACCAAC
GTACTTCTCATTATCTACTATAANNITATAATGANTTTTTGGCGTCTTC
GAATCCCCGTCGAGGTACATTTGTGTTTTATTGTGAAGGGTCTCAACTG
TGTGGCTGATTCAGGCTGTCCCACTGCAATGTATGGAGAGGAGAGAAAG
GGATGAAAGTGAAGGCAGGGGGGGGGATGTTTGTTCACGGGGTGAACCT
CTGCCTGAGCAAGTTGATGTTGGCTTCCGAGGTATTTGGACACTTCTTT
CAATACATTTTATTTAGCACTTATTCTGTGTCTGCTGCCCTGGGATACC
AGAGTGAATAAACAGATTAAAGGTCCCTGCCCTTTTGGAGCCTACAGTC
TTTTGTAGAGAAAATTGAATTGATAAACCATACCTTTTTTTTTTTTTGA
ATTTGGTGGGTTTTTTTTAAGGTTAGAACAAATGCTTAGGGTGGGAAAG
GCCCCACAGAAAGGGGTGAGGGGGAGTTACCTTTCCCGGTGCGGCCCT
TTTCAGGGATTAACCCAGGAAATAAAACCTTGTAGGCAAAAATGGCCCAT
CAAAAAGGCCAAGGAACCGTTAAAAAGGCCCGGTTTTTTGTCCATTTT
TTCATTAGGGTTTCGCCCCCCTTCCAGGGCTTCACAAAAATTCGCCC
CTCTAAATTAAGGTGTTGGGGATACCCCCAGGGCTTTTAATATTCCCCAG
GGTTTTCCCCTT

>Sequence 37

GGAGCGTTGAACCCNTTTTAGTAGCGCTCTCCCGGGTGGCGGCCGCCCGG
GCAGGTACGCGGGGCAACATGGCGGCCTTAGCAAGCTATAGCTGCGAGA
TTTGAATTACTCCACTCGTAGCTATTGCATTCCTGACGATGGCCTCTGTG
GCTTCGTGCGATTTCGCGTCCGAGCTCAGACGAGCTCCCTGGAGACCCCTC
TTCACAAGAAGAAGATGAGGACTATGATTTTGAAGATCGGGTCAGCGACT
CGGGTTCATATTCCTCAGCGAGTAGCGATTATGATGATCTTGAGCCTGAA
TGGCTGGACAGTGTGCAGAAAAATGGAGAGCTGTTTTATTGGAATTGAG
TGAGGATGAAGAAGAAAGCCTCCTTCCCTGAGACACCAACTGTGAACCATG
TCAGGTTCAGTGAAAAATGAGATTATCATTGAAGATGACTACCNNNANAA
NATTTTTAAAAAAGTACCT

>Sequence 38

TGAGCGTACGAGCCCTCTCTGGGGGCCGCCGAGGTACTTAAGTTTTCTT
CAGTTACAGCTACCATGTGAAAAATAATTCTCTGCTTATCAAGTTTACAAC
TTTAGAATTTCTGTTTTAAAGTTTTCTCATTTACTTATCACACAGTCAT
CTTCTTTTTGCCAAACGCTATAGTAGCACATTAAGGAGACTGATGTGA
AATCAACTCTGTGCAAAAAGTATTGGGTGCTTTGGTAGAAGTCTATACAG
AAGACACTGGAGACACAAAAATGAATTTTGTCCAGGTGAGTTGATGTCAG
AAAAGGCTTAATAATGGAGATGAGGCCGGGCATGGTGGTTCACACCTGTA
ATCCACCTGTTTGGGAGGCTGAGGCAGGTAGATCACTTGAGACCAGGAG
TTTGAGACCAGCCCAGCCAACATGGAGAATCCTGTCTCCACTTTTTAAAA
AATAAAAAATATTNTGTTCTGCCCG

>Sequence 39

TGACGTTGATTACAGAGCCCTCACCGGGTGGCGGCCGCCGGGCTGGTAC
GCGGGAAAGCAAAACGACAAGCACGCCCTGAGCAGAGCCCCGGGAATTCA
ACCTTTAAGTGGATTAACCTTGGCTTCTGGTTTGCCAAGGAACCAAGGGCATC
AAACAGATGAAACAGCCTATTGTCCATTTCAACAGGATTTTCAGGAGTG
GGGATGATCTTTTCAAATTATCCCAACTTAATTATTTAATATTTTGATAG
TCAATTACCTAAGACACGGCATCGTCACTGACCAATCAGAAGAGATGCCA
GTAGTTGGGCGCAGTGGCAGCACTTTGGGAGGCTGAGTGGACAGATCACC
TGGGGTCAGGAGTTCGAGACCAGCCTGGCCTACATGGTGAAACCCCATCT
CTACTAAAAATACAAAAATGAGCCAGGCATGGGGGGCACCTGTAATCCA

Table 2

GCTACTTGACAGAGTGAGCCTCTGTCTCAAAAAAAAAAAAAAAAAAAAAA
GTACCT

>Sequence 40

TGGGCGTTGACTGGATGCGCTCCCCGCGGTGGCGGCCGAGGTACAGTTTA
GAAAACTGTGGGGCTGAGTCCTCGGGGCCGTGGGGCGCAGCGTGGCTGAT
CACCATCATAACGGGCTATGGGGATACATTCTCTTAGACATTTTGAAGT
AATTAATGCTCTCGTTAGTGATTAAGTCTGTGAAGTAGTCCTTTGCATAA
TCAATCCATGCTTTTCTTTGATGCCATTGCGACAAACAGTGTAATTATA
GAAGCGAGAAATCTTGATTAATCCAAGCCATTCTCGCCACCCAGGGGGGA
TGTAGCTGCCATTATATTCATTGAGGTATTTTCAAAAAAGGCTGTTCTG
TAGCCAGTGTTGTTAAGATATACAGCAAAAGTCCGAGGCTCATGCATGGC
CTGCCACGAGGGGGAAGAGCAGTTCTCGTTGTTGGTGTAGACATTGTGAT
TGTGCACATACTTCCCGTGAGCATGGAGGACCGTGACGGGCAGCACATG
GGTTGTAGTCACAAAGGCATTGATGAAAGTGGCCCCCATGTTCCATAA
TCTTCTCGTTTGTTCATGACTTGCAAGGACCCAGCTCCACATCTTGA
TCATCGGTAAGCACAAGAATAATGTTGGGTCCGATGTTTTT

>Sequence 41

TGGAGTGCTAAGCNAANTTCAGAAGCGCTCTACCGCGGTGGCGGCCGCC
CGGGCAGGTACACGTGCACATTGTGCAGGTTAGTTACATATGTATACATG
AGCCATGCTGGTGGCTGCACCATGGCACATGCATATCTATGTAACAAAC
TTGCATGTTCTGCACATGTATCACAGAACTTAAAGTGTAATAAAAAAGA
AAGAAAAACAGCATGCAATTCAGCCACACAAAAAAGTCAAGAC
AGCGAGAATTCTTAAACAGCAATAAAAAAGTATAAAGTCACTCTAAAGGA
ATCCCCGTTAGATTAACAACACATTTCTTAAGAGAAATCTAACAGGCCAG
GAGAGAATGGGATGACATATTCAAAGTGTTAAAGGGGGGAAAAAATCC
ACTCAAGACTACCCAGAAAAGCTATCTTTCAGAAATGGAGATAAAAAAC
ATCTTTCCAGACAAAAGAAAACTAAGAGAAATTTACTACCACTCACCAGC
CTTACCAAAAAATGCCAAGGGAGTCCTACATCTAAAGCAAAACGACAAT
CATCACGAAAACATGCAAAAGCATAAACTAAGTGTACCT

>Sequence 42

TGGTCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCG
GACAAATATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAAA
CTATGATCCTGCTTTACATCCTTTTGAGGTCCCACGAGAATATAAAGAG
CTTTAAATGCTACCAAACTGGAACGAGTATTTGCAAAACCATTCTTGCT
TCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCATCCAGA
GAAGCTGGCTACTGTCCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATT
GGAATCTAACTCAGCGGAATTGTATCCGTACCT

>Sequence 43

ATTGGAGCTCCCCGCGGTGGCGGCCCGGAGAGCAACCGAGATGAAGGTGA
AGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGAC
TTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCCTTTTGAGGT
CCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACTGGAACGAGTAT
TTGCAAAACCATTCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAAT
TGCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCCTTTCTGGGGCGTG
TGATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAATTGTATCCGTA
CCT

>Sequence 44

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTCTACTCTGGAAG
CTGAGGTGGAAGGATTGCTTGAGCCCAGGAGTTTGAGGCTGCAGTGAGCT
ATGATCACAACACTGCACTCAAGCCTGGGCAACAGAGCAAGACCCTGACT
GTAAAAAATTTTTTACATTAATTTTAAAAAGTGAGGTTTTTACCTGAT
GATTGTGTAGGTTTCTCCTAGCTCCAAAGTATCCGGCTCCTACGACTCTA
AATAAACCTTCAAGGAAAGTGGAGCTGGTTTACTCTTTTCTGATAATAT
CAAGCCATTCTGGCTGGGCGTGGTGGCTCATGCCTATAATCCAGCACT
TTGGGAGGCCCGCGTACCT

>Sequence 45

Table 2

CCGGGCAGGTACGCGGGAATTCAAGATGGATTAAAGATTAAACGTTAGA
CCTAAAAGCATAAAAACCTAGAAAGAAATCTAGGCAATACCATTTGAGGA
CATAGGCATGGACAAAGACTTCATGACTAAAACACCAAAAGCAATGGCAC
CAAAAGCCAAAATAGACAAATGGGATCTAACTAACTAAAGAAGGTTTTG
CCCAGCAAAAGAAACCTACCTTCAGAGTGGACCGGGCAACCTTCCCGATT
GGGGGAAAAATTTTTGGAAATTTGGCCCTTTGAACAAAGGGGTATTTT
CCCCGAATTTTATAAAGGACTTTTAACCAAATTTTCCAGAGG

>Sequence 46

GGAGCTCCCGCGGTGGCGGCCGAGGTACTCGGGAGATCGTGCCACTGCC
CTCCAGCCTGAGAGAAAGAAACTCTGTCTCTAAAAAAGAAAGAAA
GATGTCAGTGCTATTTATAGTAATACAAAAATTTAATGTAATTTTGTCA
AAATCTCAATGGTATATTTTGCAGATTTTCAAATTATATATATATGAT
TTATAAATTTATGTTATAGATTCTGGAAGTTAATCCATCTCACCATT
CATAATACCAATCTCTCTCGGCCGGGCGCAGTGGCTCACGCTGTAGTCT
CAGCACTTTGGGAGTCCGAGGCGGGTGAATCATGAGGTCCAGAGATCGAG
ACCATCCTGGCCAACAAGGTGAAACCCCATCTCTACTAAAAATA

>Sequence 47

CACACACTCTTCTATTCTGCTCGCTCTATTTCTCGTGTCTTGCACTACGT
ATCTTCTTCTCTATGTTCTTCT

>Sequence 48

GACGTAGTCTCTCCGCGGTGGCGGCCGCCCGGCCAGGTACAAGGACATG
CTGGATGCCAAGCAGTTCCCCCTACCGTCTCACTGCCCTCAAGACTTC
AAGGCCACTCTCCCATAAACATCAGACTACAGATTTAGGTGGAAGAGCA
GCCATGTTTGAAGGGCACATGTGATGAGTGGGGGCGAGCAAGATGCCATT
TCTGCATCTCCAGAAGGGATGAGTCTTTGTCCCGATGCAAGCCCCCTAT
TCGTTGGGCTCCAGCAGTGCTTACCTTCTACAGCGTTCACCTCATTTTGT
TCTTTCCCCCAACTTTTTTTTTTTTGAACGGGGTCTTGGTTTGTCCCC
CAGGCTTGGAGTGCACCTGGACTTGGTCTCTGCTTGATGGAACCTCTGG
CCTCCAGGTTTAAAGCGATTCTTCTTGCCTTAACCTTCCAGAGTAGC
GTGGGAATTCCAGAATACGTGCGCAACCATTTCCCGGGTTAATTTTTTAT
ATTTTTAAGAGACCGGGAATTCAACCATGGTGGGTTAGGCTTGGTCTTG
GAAACTCTCACCTCAGGTGGAAGCCACATGACTCTGGCTCTCAAAGT
GCTTGCCATTACAGGCGTGGAGCCACTAGGGCCTGACTTCCCTTTTCCTT
TCCTGCCCCAGGCCGAACCACATC

>Sequence 49

GCCCCTTGGGGGAAAAAAGGCCAAAAGTTGTTCTGGGGAAAAATTTTTT
CCCTTCCACAATTCCCAAAAAATTTAAACCGGGGAAAAAAGAAAAAAC
CGGGTGGGCCCCAAGGGGGGCCACACCAAAATTTGTGGGGCGCCCC
TCCCCCTTTTAAAGGAAAAAAATCTGGCCCCCTTTAATTAATACAC
CCCCCCCCCGGGGGGGGGGTTTAAATTCCTTCTTTTCTTTTCA
TATATAAAGGGG

>Sequence 50

GGTAGTTGCATACCGTGGGCGGCCGGAAGAGCAACCGAGATGAAGGTGAA
GATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGACT
TACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCCTTTTGGGTC
CCACGAGAATATATAAGAGCTTTAAATGCTACCAAACTGGAACGAGTATT
TGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATT
GCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGT
GATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAATTGTATCCGTAC
CT

>Sequence 51

TGCGCTATGATGCTCTCCGTGGGCGGCCGAGGTACCTCAGCATATATTGG
AAGTGTTTTAGAGTTGGTGAGTTCCCGTGCTTCCAGAACTGAACGCTA
GGAGGAGCAGCCAGTGAGGACAGACGTCTATGCAGAAACATGGGGAACCT
CTGGAATGACACACTCTCCGGGCACAGGGGGCCATTCTGTCATCTTGAG
GTGGAATAATCATGGAGATTCTCGCAGGGCCGGCTGCTATCTCAGATTTT

Table 2

CTAATCGGAGAAGGAGAGAGATCAACTTCCATCGACTCCAGTCTGTCCGG
 GGCTGATGAGTGAGGTGGCAGCAGGCATCCGCGTGGATTGTTGAAACTG
 GACTTTTTATTGTGCTGAAAGCTGCTTGTGTGATGATCTCATACTTTGT
 AGTTGTTCTATCTGCAGCACTGACTTCCTAAGGGATTCTTCCAACCTAGA
 AATCTTTTCTTCTATGGAAGGCTTACAATCTTTTTCTGTGTTTTCTTG
 AAATCTTAAAAATTGGGAGGTTTTCTGGAGTACCTGCCCCGGGCGGGCGC
 TCGAAAAATAATCTCTCTGCTCCTATCTTAGGTTACTATTCCGGGGAGCCC
 TGGATACCCCTTTTTTCTTTCCCACTGGGCCCCCTT

>Sequence 52

TAGTTGATGCCNATCTTTNGANGCCNCCCCGCGGTGGCGGCCGAGGTAC
 TTTTTTTTTTTTTTTTTTTTGGCATTCTGAAAATTCATGAGGCTGTGTT
 TTAGGTGAGGCTATTTCTTCATTCAGTGAACGGGGCACCAACAGGCTCT
 TAATATGAAGACTTGGGCCCCCTTCTGAGTTCTAGAAAAGCATTTTACTA
 GTTCTTCAGTAATTTCCCTCCCTTCATTCCTGTCTCTTTCTCCTCGG
 ACTCCAATTGGATCTTGGGCCCTCTAAGTATAGGCAAGATCATGTTTCTAA
 AAAGGTTCTTAGAGGGAGGGAGTTCCTGGGAGTGTTATGTGGGGTGGTGC
 AGAAGGTGCTAACAGGTGGGTTTCTCTTAGGATGAGCAGGTGGATGCC
 AACTGTCAGGCTGGGACCTTTCCCTCCAGTGCTAAAATGAAAGTTTATT
 CTGGTCCCTTGACATCCACACCAGAAAGTCTTGACTTTCCCTTCCGCGGAC
 ATTATATATTTTATTTTATTTATCTATTATTTAATCTTCTATTATCC
 TTTTCTATTCTATTTCTCTGGGGGGAAGGGCCCCCTCGTTTATAAAC
 TGGGATTAATTGGTTCCATAAGGAAAACCTATTTTTCT

>Sequence 53

CACCTACTGAATTATGTCTTGACTATTATAAGTTATTACTCTATATTCAT
 TGATCTATATAATTTTATATTTTTTACACCAACCAAGATGTTTCTCT
 CGTTGGCGCGCAACGGGGGCTGCCGAAGAGCGACCGAGATGAAGGTGAA
 GATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGACT
 TACAGAGAGTTCCAGGAAACTATGATCCTGCTTTACATCCTTTTGAGGTC
 CCACGAGAATATATAAGAGCTTTAAATGCTACCAAACTGGAACGAGTATT
 TGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATT
 GCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCCTTTCTGGGGCGTGT
 GATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAAATGTATCCGTAC
 CT

>Sequence 54

ACTTATTACCTACATGTTACTTCTTATCTTTGTTCTTAATATAGTATATG
 TTCGAAATATTATATCATATTTTGTATATTATTTATTAATAATTTATTA
 ATATTACTNNNNNTGGTGTGTTGACCATTTGGAGCCCTTACGCGGAGGC
 GGCCGAGGTACACTGGGAAAATGAAGAACTTAACTACATAAAAATAGAGG
 GACAGTCAAAACTTCACAGGGGGGAAATCAAGTTAAATTCAGAGCTGGAT
 TTAGATGATGCCATTCTAGAGAAGTTTGCTTTCTCCAATGCTCTATGCCT
 TTCTGTAAAACCTGGCAATTTGGGAAGCATCACTGGATAAATTTATTGAAT
 CTATTCAGTCAATTCCTGAGGCTTTAAAAGCTGGGAAGAAAGTGAAACTA
 TCTCATGAAGAAGTTATGCAGAAAATCGGTGAACCTTTTGCTCTAAGGCA
 CCGTATAAACTTGAGTTCAGACTTCCTGATTACTCCTGATTTCTACTGGG
 ACAGAGAAAACCTGGAAGGACTTTACGATAAAACGTGTCAATTCCTTAGC
 ATTGGCCGAAGAGTTAAGGTCATGAATGAAAACTTAAGCACTGCATGGA
 ACTAACAGATCTAATGCGGAATCACCTGAATGAGAAGAGGGCACTTCGCT
 TGGAGGGGAAGATTGTCAATCCTATTACCATAGAAGGAATGGTTGAGCTG
 GGACCAGTTTTTTTTGATCAGTGATACCAAGTGACTGCAGAGATATTAA
 GTG

>Sequence 55

TCCTCCCTCCCTTCTTTGTTACATCATTTATTTATACTCTTCTTGCT
 TCTTCTCTATTCTCATTACTCACGTTATCTCCTTCTATCGTTTCTGTAC
 AGTCGTTTATTTTTINGACTNCNNNNNTNNTTGTGTTGACCTAGCTCCA
 CCGAGGCGGCGGCCGCCGGGCAAGTACTTTGCAAAGTGGATGCAGCA

>Sequence 5'

Table 2

TTTCGATTGAGACTCTCCGAGGCGCGGCCGGAAGAGCAACCGAGATGAAG
GTGAAGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTT
GGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCCTTTTG
AGGTCCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGA
GTATTTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGT
CAATTGCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCCTTTCTGGGG
CGTGTGATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAATTGTATC
CGTACCT

>Sequence 57

TTCTTCTCCTCGGTGCATATAATATTTTCCTTTTTTCTTACGGTCCGTGA
GTCTATTTATTGTTTTTATTCCTTTTGTACTAATAATTATTAANNNNNN
NNTNNAATTCCTTTGTCGCTGCACGCCGAGGCACCGATCACTCAGTTGTG
CAAAGGAGAAACGCCACAGGGAATGGGCGGCGGCTTACCTGGGGATAC
CTGATGCCGTGTTTGTGGAAGATGTAGATTCCTTGATGAAACAGACTGGC
AATGAGACTGCAGATACTGTATTAAAGAAAGTGATGAACAGTACCT

>Sequence 58

TAATTTTATCTATTCATATTATTGTTTTTACTCTGCTAATTTATATTTCT
TTGTACATCATTATTTACTTTTTTATCATATAATTTATTTNNATTTC
ANNATTGTTTCTGTTTCAATTTGGAAGCCTCCACCGGGAGGCGGCCGCGG
GGCAGGTACGCGGGCTATTGTGATTCCCAGTGACCCATAGAACAGGATTT
CACTAGTCCTATGACATGTGACTGGGCTTGGGAAGTTCGGGTGTCAGGTC
CAAAAATCCTAAGGTGGGATCTTCGCTTTGTGAAGCAAATTAATTACACA
ACCAAATATTGCCACATTCTTGAGGTCTATTGACACAATGGGAACCTCAA
CCCTACTTAGCTTAGCATTTTTTTTTTCAAAGAGTGAAAAGTGGTCCAC
GTAGAGCACAATATAATTTAAGTAAAGGAAGATTAACATATTTTATC
CATTTCTTATGGTGGGAAATTAACATGTTTTAGATTTGAGGTCCCCCTCT
CAGGAAACCCCTTCAACTTCGTATTATTCACCTCTGAGTAGTATGGGGTA
GAAAATGAGTGGAAATCAGTTTGGCCACTATTCCGAGTCTTTTGCAGTG
CAATACTTTTCATCAATATTTACAATATTTTCAGTCTCTGTTACAGATGGGG
ATCACATCAGGCTCAACCAAGTTACAGAATTCTTTGGGTTTTATCTGGA
CCTTTTAATTAACAACTAAAAGTTTTTTTTTTTACAATATTCCTGTTTTAA
A

>Sequence 59

CACCGCTACACACTATTTTACTCGTAATAGTTTTTACTCATTTTCTTCAT
GTTTTACTCCACACACAGACTCTTATTTCTTTATATATATTTAGATTG
TTTTACTCTTTCTTATAGTTAATATNNANCCGGGATTGGCATCCCCGCG
GGGCGGCCGAGGGACGCGGGAAAGATCAGTTGTTTTACCTTGGCATTCAA
AGACTTTTCTTTGACTCCCATGGTCTCAAAGCGTGATCCTGGTCCACCA
CCATCAGCATGGGGGGGAACGTGTAGCACTGCAAAATCTCATTCTCCC
TAATTTTCTGAATCAGAAATTACGGAGGTGGAGCCCAGCAATCTGTTTTA
ACCAAACCTCCACATAATTCTAATTAATTTATGCTTTGAGAACCGCTGAT
CTAGTTTGTCCCTCTCATTTTGCAGGCAAAGAATTGAATTCTAGAGAGGT
TAATTGACTTGTCCAGTCATACAGATAGGTTCTGTTTTCTATTATTTATT
TATTTATTTATTTTTATTTTATTCACTTTACCCCCCAGGATTCATAGTTT
TCTTTCTAATACTCCATATTTGACTTGACTTTTTTACAAGTTGTAATTAC
AAATAAGTCTAAGATGGGAAAGTTGTGGAAAACCTTATAGAGAACATGAG
ATTTGACTGAACAGTAAACATTAAGTAGAGAGGAAAGAAAGGGGTGTTCT
AAGCAGTAGGGACCACAGTGAATAAAGGTAGAGATAGGTATGTTTAAAAA
AAA

>Sequence 60

GCACCGCACTAGGTGGGATGCTAGCCGGATCCGGACAATATGTCCGCGAA
ACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGGGGGTGCTTTACA
TCCTTTTGAGGTCCCACGAGAATATATAAGAGCTTTAAATGCTACCAAAC
TGGAACGAGTATTTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGT
GATGGAGTCAATTGCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCCT
TTCTGGGCGGTGTGATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGA

Table 2

ATTGTATCCGTACCT

>Sequence 61

TGGACGAATTGTTNCCGACTACCGCGGTGGCGGCCGAGGTACACGTTAC
TGTTCCGTCGTATTTTGTAGTCTCTGTTCTGCCCTTTGGAACATCTCTTC
GGTGTTCCTGTGGGATCTCTCTACTGCATTCTACTTTATGTAATAATCTG
TTCAATAAATAATTTTTAAAAGGAGACAACAACGCCGAGGTGATCTGGA
GGCTCCTGGAGGACCTCAGCGACTCAGGTCCAGTCCAAGGAGGGCCGAG
ATCAGGCTGAAGGATGGATCCACATGTTTAGAGGAGATCGAGAAATGCAG
AAGAGAGATGCAGCAGAGAAATGCCACAGAAAGGGGAGCTGGAGAGAATC
AAAGCATGAGAGGAATTCAACCTGCTGCTACTGGAAGGGGTCCAGATGGA
ACGCTTGAGAAGAAACGTGTGTAGCATCTAGGAGTAAAGACTCGCCCTGG
CTGACAGCTAGTAAGGAAATGGGAACCTCAGTGCTGCAGCCTCAAAGAAT
TGACTTTAACCCACAGCCTGTGTGCACTTAGAAGCGGATGCATTCACAAA
TCTTCCAA

>Sequence 62

TGGGTCGTTGTCTTNTCCGCGGGGCGGCCGCCCGGCAGGACAATGATGGC
TGTCAACTTCGTTTGTAAAAAAGACAATTTGAGCAGGACGACCCTCT
CCAATCTGGGTAGCATGGTTAGCCTGTGCAGTAACAACGTAGGCTCGGAG
GATGGGTACCT

>Sequence 63

TTACTAACCAAGATTGGATTATTTACTCTATGATTTTAATTATTGCATAT
ATTTAATA

>Sequence 64

GGGATCTTTTTGTCTTNGNCGGGGGCGGTCTTCCGGNCNGACNGCGGGG
GGCGNNGGGCNGGAGGAGAGGAGCGGCTTTAGNAGGGGGCGCGGGCCNC
CCCAGCAGANGNCNCCAGCAGCAGNNGNNCTTTGAGGCNCCANCNCCCA
CAGCACCGANCAGNNGGNNCCAGCNCNCCACCAGGGGACCCNNGGACCCGG
GCGACGGCNGANCCAAACNCNGAAGGAGNCNNAAACTTTTTTCTCTTGAG
CGNNGNNGNCCNCCCGCGACCCGNGCAAAGGAAGCCAGCNGGAGGGG
CGNNGNANNGACGCCACGGGGGNCACAAACAACNNNCAAAGGAAGAA
NNNGCCACCCACCAANCNNNAGCAANACAACANAGGAANCAANACAAACA
NAACCGAAAAACGAGGAAAAA

>Sequence 65

TTGTGTGTACGCGCGGAGGCGGCTGAGGGACTTTACTTTTTTTTTTTT
TTTTTTTGGAGGAGATGGACAGTGTCACTCTCTGATAAGGGGGTGATG
GGTAGGTAATTTAAAGCTTCTATTATAAAATCTAGTCTCTCTGACACTG
CCCTGTCCACTGCAGTCACATCTCCCAATACTGAAGGATCCTGAGAATAC
GAGCGGGCATGACACTTACTCACGTATTCACCATNCTCGTTGTGCCTGC
CCG

>Sequence 66

CTGTTTGCTACACGCGGTGGCGGCTGCCCCGGCAGGACCGCGGAAATCCC
CTAACTTCCTTGCTATCTTCCCATCCCATATTTAGGTTAGATAGAGAAGT
GTGTATGTGTGTGTGTGTGTGTGTGCTCGCACAGTGATGAACTGTAAAC
ATAAATGAAGATATGAAAAAATACATCAATTAGGACAACATGACAATTTT
ATTAGACTCCTATCAAAGAGTATCAGTTCACAGTTTTATAGATACTAGT
ATAAAATTCAGATCTTGACTGTTTTCTGGGGATAAAGCAAGGCTTTACAA
TTTAGCAGTCTGTAGCTAGCTTGAACAGTAAAAACAACAACAGCAGAGCC
TTAAGTGATTTTTGTGACCTAAAACATGAACTCAGGGTTTCCAAATTCC
TAACAATGAATAGT

>Sequence 67

GATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGAAGGATAAGAAATT
ACTGTGTCAAATTACCCACAAGTTAAATGCCCATGTTCCAGACCTGTGGC
TCTTAGTATCAGGCTTGTGATAGAGAAAAGGCTGCTATGAATTCTACTCA
GTGTGCTTAGACCAAAGGAAACCACCACAGGGATTCACAGGC

>Sequence 68

GGGCGGGCGCTGACTTGGCGCTTGCGCATGCGGGAACCTCGGGCCTGCCAA

Table 2

GTGGATGAATGGATGGCGTCACGGCCCCGGGGGAGAGCCGGGGTGTGGAC
GGGCCCCTGGTGGCGTTAGCTGGCTGACTGGCTCGGGTGGGCTGCAGGGG
GCCGATGGCGGGTGGCGGAGTGAAGTCTGCCTCGAAAGCGGTAGCGCNGAG
GCGCCCCGATGGGGGGGGGGCGCGGGGTGGTCGGGGAACGATGCCCCAGN

>Sequence 69

GGTCCCATTTTCATCTTGCACCCGCATACCAGGGATTGTTGCGAAGAATCA
GTTGTGTTATATTGTCCAAATCATCAAAGATACCCTGAGGTAAATTACTT
AGGTTATTATTGGACATATCCAGTCGATAGAGCTGCCTTAGATAAGAAAA
AGCATTGGGGGACCCCGATTGATGTGGTTATCTTGAAGATAAAGCTTCC
TCAGGTTTGTGCCTGGAAGGTTTACTGGTGCAGCAGTCAGGGAATTCCGC
ACCAGGGACAGCTCTGTCAAATTAAGTGTGAAGAAAACTTTGTCACC
TAAACCATGATTGTTCAACAGGTTTCCATCTAGAACCAGGCGTTTATAGAC
TAGTGAGACCTTGAAGAGATGGTGATGAAATAGTGGATATGCGATTATCA
TCCAAGCGTAGTTCTTCTATAGTCCTGGGCAAACCCAGGGAATTGTGCT
AAGGTGATTACGGGACAGGAAAAGCAGTCGGAGATAGTTGCTGTCTCGGA
ATGCTCCCTCTTCTATGCTAACTGCAGAGACAGAGTTGTCATCTAAATGT
AATTCTCCAGATAGGGAATTTTTGAAAGTGAATCATAAGTGATAGTCCT
TATGTTATTTTCTTGCAAATGTAACCTCTTTTACATACTTTTGGGAGGTTG
GTAGGGAATTCATTN

>Sequence 70

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTGAATAAAAAGGCT
TTGGTTTCTCTGATGTCTTCCAATCAATCACACAGAGCTTGCCCTGATAC
TCAGCCACACAGTCCAGCAGACCTATATAGTTTAAAGGTTTCATGTTGAAC
AGCACTTTCAAGAGCTCGCACTCCACTGACATCTTTCAGAAATATGCTGGA
CACTTTCAATGTAACCAGACTTGAGGAGATTTTCATCTCTCTCTTTTAAAG
GTTTCTGGGGTGAAAGTATGCTTTCCAAGGCTTCGTGGAACCGTTTCCC
TTGTAAAAAGACGTTTGAAGTGTATTCTTTAAAGCCATCTTCTCCAGTT
CCAGAAATCATCCGCTGTTTCCACCTCTCCAACAAGAAAACCTGTTGTTTT
GTCATGGTCTGCTGAAGGACTCGGGTCACACTTGGTATCACATTCCTTTG
CAAGGGGATTTTCAAAGGAACTGAAGGATCACTTGCATTTGGTTTATCAC
TTCTCTCTGGATTGAAGATAGGAAACAGTTTGTGGCACTCGTCTGTCC
TCACCTTGGTTTGGCAGCTTATGCTTGCTCACGGTTCACAGAGCAAAGA
TTTTTCTCCACCGATCCCGGGGTCTGGCCGACGCCTCTGGGTGACAAACA
GACCTGACTAATTAGAGTTTTTTCTTGGCCCCCTTTN

>Sequence 71

AGGTACTTGAAGGATAAGAAATTACTGTGTCAAATTACCCACAAGTTAAA
TGCCCATGTTCCAGACCTGTGGCTCTTAGTATCAGGCTTGTGATAGAGAA
AAGGCTGCTATGAATTCTACTCAGTGTGCTTAGACCAAAGGAAACCA
CAGGGATTTACAGGC

>Sequence 72

AGGTACATATATCATTTATTCAAGAGGCAGATTTTAAACGTTTTTGTA
AAGCTAAATAACACCCAGAGTGAAGTCAAAAAATTTCTCAACTTTGCCAA
GTGAATAGTAAGTCTAGAGTTTTTTGGGTTTTTTTTTG

>Sequence 73

GCGTTTGGAGCAACACCGCGNGGCGGCTGGNNGNTCTACCGCCCCGAAG
CACACTNGCAGAAAAGGGACTTTTNNGATGGGTTATGCNNCGCCCTCCNN
GNCCAGCNGGACCANCNATTTTTCTCTCTCTCTGAGNCTGCCTTTAAA
AGTCTATAACAGTAGAGATCAGTTGTCTCTGGTTGCAAATCTAACATATA
TTCATGCAATGGAGGNGNANCTTTTTCTTTTTTTGGTTTGGGNNNGCGNA
CGCGCCCNAGAAGAACNCACGCCCCAGNAACGGGGGCGGGCAGNACCNGC
CCCGGGCGGCCGNCAGAACACAGGGGGACCCCGGGCGGCAGGAAANCC
AAAACCAAGCCCAACGAAACCCGGGGACCCCGAAGGGGGGGCCCCGGGAC
CCAGCANNANGGGCCCCAGAGGAGGGGAA

>Sequence 74

NAATATGACTACCGCGGTGGCGGCCGCCCGGGCAGGTACCTTGTGAGAA
GAGGAAGAAGGTGATAAGAACTAAGATCAGAGCATAGTAGAGAAAGTAGC

Table 2

CCTGTAAACAGAGGAGAAAGCAGAAAGAGAGAAGGGAGGACAGAGCTTTTA
TTTTGCTCCAGGTTAAAAAGAAAAAAGCACATTACAACTCTATGTCA
GTGTCTGTCCCAGGTCCTAGAACTGGAATAGACCAACCAAGCCCAACCCT
TCTTAAAAGTAAGACTAGGTGCTTCCTGATTATATATTCAACTGCCTGGA
AGCATGCAAGTAAAAATTCCTTGATGGCATTCTAAAGTTCAAACATATT
CTTCCTAAAAATGCATTTACAAAAAATATTAAGATTGTGTTTTTTGGTT
TGGACTTTAAAAAAATTTGTTTTCAAACCATAATTGGGGCCTACCCCAA
AATGGATTCTCCTCCCTACAGTGGGGATTTCATTTTTCCAGTCCCCACCC
GCTTTTTAATTTTTGATGACCTGCACCTGGTTGGGGGAGCCACTTGTGGG
CCCTTAAAAAACAGCAATCCTTTTTGGCCCTGGCAGTGTCTAAAAAGGG
AAAGGAACAAGCCCTTTTGGGAAGGAAAGGGAGTTAAGCCCCGGAAGGA
AATTTTTGCTTGATAAAAAAGGATAAAGGTGGGTTTGTGCCGGGAATTTA
ATTTGGTTTTGGGTGGCTCCCCACACACC

>Sequence 75
TAGGTAGCGACTCCCCGCCGTGGCGGCCGAGGTGCGCGGGGAGGCGTTGT
GGGAGGAGGTGCGGGGAGAGAGGAAGGGGCTGTGCACTGAGCAGGCATC
AAACATTAGTGGATGGCCTTGCGTCTCAATCTGCAGTAAAGAGGAACTA
ATCTGAAAGGGAACGATAGGACTGTGTGCTTTTTATTTTTAAAAATACG
GAGTGTGCAATTTACTGAATCTTGAATCATGCCAAAAAGAATGAGCTGT
CGGTGCTGCAGTCGTGACCCAGGCTGA

>Sequence 76
GGTCTTGGCTGCCTGTGGGCTTCCCCAGGTGGCCTGGAGGTGGGCAAAGG
GAAGTAACAGACACACGATGTTGTCAAGGATGGTTTTGGGACTAGAGGCT
TATTGGGGGAGAGATCCCTGCAGAACCCACCAACCAGAACGTGGTTTGC
CTGAGGCTGTAACTGAGAGAAAGATTCTGGGGCTGTCTATGAAAATATA
GACATTCTACATAAGCCAGTTTCATCACCATTTCCTCCTTTACCTTTTA
GTGCAGTTTTCTTTTTCACATTAGGCTGGTTGGTTCAAACCTTTTGGGAAG
CACCGGACTGGTCAGTTTCTTTTGGGAAAGTGGGGTCATCGCATTTCCTG
CAAGGGCTTCTCCTCCTCTGGTCTTTTGGGAGAACCCGGGGCTTTTTTCA
CGGGGCTTTAGGGAAGTGGTCAGGCTGTTTTCAACCAGGAAG

>Sequence 77
CAGGACGCGGGGAGACAGCAGAAGGATCACTGGGCTGGAAGCTCTAACAG
GCATTGCCAGCCTAGCTACCTGCAGTTTGAGGCAAGGGCAGGGTCACTTA
CCCTGCTGTCTGAAATGTCTCCTGGGACAACAGGAGGCTGCACTCACTGGC
TGAGTTCAGACAGAAGAGGGATCATCGGACTGGAAGCTCTGGCAGGTATG
GCTAGCCTGGTTACCCGTAGTGAGAATGGAGAGGGCCACCTGCCAGCTA
CACAAATGTTTCCCAGGACAACAGGAGGCTGTGTCCACTGACAGTTCAGA
CCGAAGTGAACCACTGGACCGGAAGCTCTAGCAAGTGTGCCCACCTGG
CTTCTAGTGAGCCTTGAAACCAGCGAAACAATAATCAAAGAGCAGTTCTT
GTCAAGAAAAACCATTAATTAGGTACCCTGGCCGCTCTAACTTATGG

>Sequence 78
ATACCGAGGCCGGAAGGCAATATAAGATGTATAAAGCCCTCGGGGTTGC
CCTAAATGGAGGTGTAAGCTAAACTTCAACATTTAATTTGCCGTTGCC
GCCTTCACCTGGCCCCGCTTTTTTCCAAGTTCGGGGAAAAACCTTGGTTC
GGTGGCCCAAACCTGCAATTTAATTGAAAATTCGNGGCCAAAACCTGCTCC
CGGGGGAAGAAGGCCCGGTTTTTGGCGTATTTGGGGGCCGCTTCTTTCC
CGCTTTTCTTCGCTTCAACTTGAACCTTCGCCTTCGCTTCGGGTCCTT
TAGGCTTGCGGGCCAACCCCGTATTCAAACCTTAACCTCAA

>Sequence 79
GAGGTACTTTGGCCTCTCTGGGATAGAAGTTATTCAGCAGGCACACAACA
GAGGCAGTTCAGATTTCAACTGGTTCATAGATGGGCGGGAGAATGAAAA
CAGATGGTGCAGCCACAGTTCGTTGATCTCCACCTTGGTCCCTCCGCCG
AAAGTGACCGATGTCCTTCCATATTGTTTACAGTAATACACTGCAGA

>Sequence 80
GAGATGCCGGGGGTGCCGATATACTGTGCAGAGGTAAAGGATATAGTGGC
TACGATTACGGCCTCTCT

Table 2

>Sequence 81

TAGATAGCTCCCGGGTGGCGGCCGAGGTACAGCCAACCCCTAGGTGTG
GACCAGCTGAGGCAGGTGGGCAGATATGCAGAGGGACTTGGGGCTTTGCC
AAAGGGTAAGCACAAAGAAGGAGTCACGGGTTCTGTTTCGAGGCACTGTTG
GGATTAGGAGCCCCGAGGGACCTACTTTGCAGGAACCTAGCATAACTTTGT
GTGACGAGACTGCACAAGACAAAGCTCAGGCAAGTGGCTCAGTAGTTGGC
CAGCCCAGCAGGGTCTCTGTATGAGTGTGCACCCAGCTGAAGAGAAGAA
ATGGAGAGCAGCAATTGGAGCTTCAGGACCGGCTTGCACTGTGGCTCCAG
GTTATACCACCACTGCCCAAAGCAAAAGCTAGAGAAGCAAGTGGAGAAAT
GCTGGAGAAAGCTGCACCCTACAGGCAACCAGCACTTTAAAAACCACTCC
AGGCAAGTAATGGAAGGAAAAAGCCCTGCTTTTCAGTAACCTGGGCCT
G

>Sequence 82

GACACCATACGTCTCTGTGTATGATCTCNCTAAGTCATATCGTGTAACGT
GTACACTTACTCATTACAGCATATATNTCAACGTCAACTTCTGTTTCTCTC
AGGTTATTTATTTCACTACTTATATCTGTTTCACATCAGTAACATCGT
CATATCTCTACGTCTTTAGTGATCTATTGTATTTCTAAGAGAGACTCCGG
TGGCGGCCGAGTACGCGGGGAGTCAGTCTCAGTCAGGACACAGCATGGA
CATGAGGGTCCCCGCTCAGCTCCTGGGGCTCCTGCTACTCTGGCTCCGAG
GTGCCAGATGTGACATCCAGATGACCCAGGCTCCATCCTTTCTGTCTTG
CATATTGGAGGAAGACAGAAGTCACCCATTAAGTTGGCCCGAACAAGTTC
AGAAGCATTTGCCAGGGTATTATGTAATTGGGTTTTCAACCAAAAAACC
CAGGGTATAAAGCCCCCTAAAGGCTACCTTGAATCTTATAGCTTGCCA
TTTCCAGTTTTGGCAAAAGGTTGGGGCGTCCCCCAATTCTAAGGGTTTC
AAGATGGGCCAAGATGGGATTCCTGGGGGACAAGGATTTTTTTACCTTCT
TAACCCAAATACAAGGCAAGTTCCTGGCAAACCTCTGAAAAGAATCCTTT
GCCAAAACTTTTACCTACCTTGCCCCAAACCAGGGAGTTTAACCAAGTGT
TCCCCCTTTGGGAACCGGTTCCGGGCTCGCCTTTCTAAGAAAACCTAAG
ATGGGAATTTCCCCCGGGGCTTTTGCAAGGGAATTTCTGATTATTCAT
AGGCCTTAATTCGAATACCCCGGTCGGAACGCTTTGAGGGAGGGGGGG
CCCT

>Sequence 83

GATGAGTCGAGTGGCGGCCGAGGTTCCCTGTTGCAGCTCTTTATTTCTTA
GTCCCACTCCCCGAGGTAACACATTTCTGCTTTTTAGCTGTTTCCTCT
AGTGTAAGTTTACCTTTCTAATTTTGTATTCAATCACTTAACCACCGTTA
CATACTACAAAATATCACTATATTATGACCATGATTATATTTCTTTCTT
TTTCCCTTCATCAAGGAAGTTCATCAAAGAATTCATCAAAGTTCAATGA
TGACCTCTTTTAAAAATTTTCTTAGTATTCTATGTAACCTATTACCGATCT
TTTCCCCACACACTTCAAAAACCTTTTAAATTATAATTTTTTACATAGCCC
TTAGCACAAATAACCAATCCTTTTTTTTTTCCCAATAAAAAATGTGCCTTT
CGTAACCTTTGTCTCTTTCTTTTACCTGGAATATTGCTTTTTAAGGCTG
TTGTGCAACTTAGAACTTATTTCTTATTATTCTGGGGTTTCTTTCCCT
TTTTTTGTCTGGAATCCCTTTTGCCGGAACCT

>Sequence 84

CTCTCTTTTCTCTTCTACTAGTACATCATACTAGAGTATCTNTGTATTT
TCACACTGATANGGTAAATCTGTAATAACATTATTTTATAATGATAAT
AATCTAATTCATGATCAATTATCTATAGATCGAATCTATACTCTTACATC
TCGACTCTACGATACTTTAATATAGAGATGACTCCCGCGGTGGCGGCCGA
TGTAATATGGCCTATATGGGATAGAAGGTATTTACCACGCACACAACAAA
CGCAGTTCCATATTTAACTGCTCATCATATGGCGGTAACATGGGGACAT
ATGGTGCAACCACACTTTCATTTGATTTAACACCTTGGAACCCCCGGCC
GCTCCTAGAAACCTAATTGGATCCCCCCCCGGGGCTGGCAGGAAATTCGAA
TATTCAAAGCTTTATTTTCGATTACCCGTCCGACCCTTTGTAGGGGGTGGG
GCTCCCCGGTAACCCCAACCTTTTATGGTTTCCCTTTTTAAGTGGAAG
GGGGTTAAATTTGCCGCCGGCTTTGGGGCTGTAAATTCATGGGCTAC
AATTAGACCTGTTTTTCCCTTGGTGTGGAAAAAATTAGGTTTAATTT

Table 2

CCGGCTTCCAACAAAATTTCTCCACCACCAAACCAATTAAACGTAAGCCC
CCTGCGGGAGGCCAATTAATAATGTTGTTAAAAAGACACTTGGGTGGGT
GCCCCTAAAATTGGAGGTTGAAAGCCTTAAACCTTCAACAATTTAAATTT
GGCGGTTTTTGCGGCCTCCAACCTTGGCCCCCGCCTTTTTTCCACAGTTCC
GGGAAAAACCTTGGTTCGTGGCCCCAGCCTGCCCATTTAAATTGAAATAC
CCGGCT

>Sequence 85

TTGATGTGCTCACCGCGGTGGCGGCGGGTACTTATATTACATTATGCTAA
AATGCAAAACATCTTATGCTAAATGTTATATTTGGGAACAAATTGTGTAAA
TATACTGATGACGTCAATGGATCATTACAATTAATGTAGGTGCCGTGGGC
AGGAAAGCTAACTTTAGCTGAAAGCATCTGAAACGTGCTTATTTTTAATG
GGCCTCAAAGGAAAGGGATGAGGCCAGCCATAAAGAAAGGCTTGGCCAA
ATATAGTTCTTGTGTTGCAAGAACAACAAATCCCATTTCACAACAGAACT
AACCTGGCATGCCATTCTATCCTTAGGTTCTGGCGTGCAGTGAGCGAGGC
AAGGATGGCATTCAAGATTTCAATTCCTTTGTTCCACGGGGAGGCCCTTT
CTTTAACTTCTTGAAGCAACATATTTGGCAACAACCTTCATTTTTTT
TCCCCGGTGTCTTACTGTTTAAGCCCTTGGG

>Sequence 86

TGTGAGACTCCCGCGGTGGCGGCCGAGGTACATCCCTGTTTATCCCATT
CATCCACCGAGGCCAACAGCATGGATGATCTGTTTGCAGGGAAGCCTCC
CTGCTCCCGTGACAGCTATCTCACCAGCTGACACTTTACCATATCTGGCA
ACAACTGTTTGCTCTCTTCTTGGATTTCAAATCCACCAGCTTTTACCAG
GGCCAGGGCCAGGCCTCCCCATGCAGAAGATCTTCATTGGCTGCATTCA
CCACAGCATCAACAGCATGTGTGGTGAGGTCACTTTCCACACTGATAAC
TCTATCCTAGGAGTCAGCATTTTTCTGAACACTTGCAGAGATTGCTGTT
GCCTTCCTGAACTGGAGAGACCAGGGTAGAGATACAGCCAACTTATTCT
GGAGGACTTCACACAGCTGACGCTCATTATTGTTTAAAATTTGAAGTCA
TTGTGGTTAATGGGAAATTTGCCAACTATAGTTTTCTCCAAGAGCACCAA
TCTCTGATTTTTCATG

>Sequence 87

GTCTTCACTTTTACTTTGTTGCTATAAGTTTTTACTTACTTTTCATATTA
TTGCGTTTATAATTTGTTTTATTGTAGTTTAACTTGCGTTGTTACTTATT
TATATTATTGTTATATTATAATAATCGACGCTTGACTCACCGCGGTGGCG
GCCGAGGTACTCTTCAAAATTGTCAAGGTCAAGGAGACAAAGATTGGAGAAGAAACAATGAC
AAGAATTCTTACAACTAGAGGAGACAAAGATTGGAGAAGAAACAATGAC
TGGCTGGGCACGGTGGCTCATGCCTGTAATCCACTTTGGGAGCACTTTGG
GAAGGCCGAAGAGGACAGATCATCTTAGGTTTGGGAAGTTGGAAGACCGA
GCCCTGTACCCAACGTGGAAGAAACCTCCCATTCTCTACTTAAAAATAC
CAGCAAATTTAGTCTTGGGTGGTGGTTGGGTGCCATTGCCCTATTTAAAT
CCCCAGCTTACCTTTGTGAAGGGGCCCTCCGTGCAGGGAGTAATTCTACTT
TGTAACCTCGGGGGAGGGCAGAAGTGTGTTGGTTGGGTGAGGCCCAAAAT
TTGCCGCCCATTTGCCACTTCCAAGCTCTGGGGCAAAACAAAGAACGAAA
TATTTTGTCTCAAAATTAATAAATAGATTTTTTATTTAGGGGTTAC
CCTGTCCCCGGGGCGGGGCCGTTTAAAAAACTAAGGGGTGATCCCC
CCGGGGCTTGAAATGGAATTTTCGATTTT

>Sequence 88

TCGGACCGCTTTCAAGNTACAGAGGGTGGGCCGAAAACCCCGACCAGGG
ACCTTATTAAAGAAATACCAAGGCCCGTTTTCCCCTCTGGGGAAGCTTC
NCCTCCGTTGCGCTCTTCCCTGTTTCCCGACGCCTTGGCCGGCTTAACC
CGGGATTACCTGTTCCTCGCCCTTTTCTTCCCTTTCCGGGAAAGGCGG
TGGCCGCTTTTCTTCAATAAGCTTAACGGCCTGGAAGGGTATTTCTCAA
AGTTTCCGGGGGGTAGGGGTCCGTTTCGGCTTCCCAAAGCTTGGGGCCTT
GTGGTTGCCACCAAAACCCCGGTTTTAAACCCCAACCGCGGTGGG
GCCCTTTATCCCGGGAAC

>Sequence 89

CGGTCAGGTACCGCTCAGCCTGCTTGGTTGCATCTCCGCATGGCGAGTC

Table 2

AGCTCTGAGATCTGAAGGTCAGCATGCTTACGCTCGGCCTCACATGTGTC
AAAGTGATTCTGGATCTCCTTAAGTCGATCCAACATCTGCAGTTGCTGTT
TTTCCCCATTCTCCAGTTCACGTGTTAAATTCTCTACTTGTGATGCCAA
TGTGCTTTCTTCTGTCTTTTCTTTCCATGCACCGTTTCACTTCCTCTAA
CTCAAATGCCATTGCGCTGAAGTTCAGCTGCACTCTCAAAACTGACATTT
GCTTCTCCAGGTCCTGTTTTTCCGCTCAACCCCTTTCCTTAATCTTCAG
ACCTCCCCTTGGTCAACCTGATAAGTTTGAG

>Sequence 90

AGGTACGCGGGATCACAAAGCAGACAAACAGGAAAGACTGAACCATCTAT
TTGAAAAAAGTGACTTCATTCAATTGGTTCAGCCACCCGTATCTGTAATC
TCTCCATTCTGCCCTCTTGATTTTAAATGCAGCTATAAAGGAGAGTATTTT
AAAAGTGCCTCCCAGTAGGAAGAACAGTCACAAGGCACTGTTATATCAAT
TCAGTGTGACACAAGCCCTGATTATTTAATAGTATAACAGCAGTGAATCA
GAGTTCCTTTCATCTGACTTTGCTGACATTTCCAGCAGCTGTATATTTAAT
TCACAGTTAGGGGCTGAACAAACTACAGCCATTGATCAGAATGTAAGCAG
GCATCCTTGAGCTTCTTCTAGGAACATATACAGATGTGCACAAAATTTTC
ATTATTTCAGTN

>Sequence 91

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATCACAAAGC
AGACAAACAGGAAAGACTGAACCATCTATTTGAAAAAAGTGACTTCATT
AATTGGTTCAGCCACCCGTATCTGTAATCTCTCCATTCTGCCCTCTTGAT
TTAATGCAGCTATAAAGGAGAGTATTTTAAAAGTGCCTCCCAGTAGGAA
GAACAGTTCACAAGGCACTGTTATATCAATTACAGTGTGACACAAGCCCTGA
TTATTTAATAGTATAACAGCAGTGAATCAGAGTTCCTTTCATCTGACTTTG
CTGACATTTCCAGCAGCTGTATATTTAATTCACAGTTAGGGGCTGAACAA
ACTACAGCCATTGATCAGAATGTAAGCAGGCATCCTTGAGCTTCTTCTAG
GAACAAATACAGATGTGC

>Sequence 92

NGCGCTTAGGAGCNCNACGNCGCGNGGCGGCCTGNCCGNNCNGTCGCAG
CCCCANGAGGNCACCAAGCANCCANACCCCTACCGNGAGNNGTGAGGCA
ANGGCCGCCAGGCAANGGCACANCAAAANCCGGTTTTTCNGCNNNGAGCAC
NNGNCACCCGAGAAAACAAGGNCNCAACNACNGACNGGCCAAGAAGGGGC
CCGCCNNGGCCAACNNACCANACAGNNNAGAGCTTTTTTTTTTTTGGT
TTGAGCACCGGGACTATCCTCTTGACTACAAAGTACCT

>Sequence 93

GCGATTGGAGCAACCCGCGNGGCGGCCTGNCCGCCGCTACNNNAATCAN
GGAANCNNNGCTNNNNGNCCAGATGCTTTGNCGNTTCTTTAGACACAGNG
GCTNNNGCAGNNAAACCCNACGTTTAGAACNGGGGGGCGAGCCCCGAACG
NCNAGAACAGNGGACCCCGGGCGCAGGAANNCGAACAAGCNAANCGANA
CCGNCGACCNCGATTTTGTTTTTTGGCGGAGCNGNNGNCCCNCTCCCGA
GGGAAAAAAGCGCGCTCNGGCGAAGG

>Sequence 94

TGCCCGGGCAGACACAGCTCCATGAGGTCACCAAGCATCCCATCACCCAT
ACCGGCAGTTGCATGGCAATGGCTGCCAGGCAATGGCACATCAAAATCCG
GGCAGCGTCTTGAGCACTGTGCAATTGAGTCAACAAGGTCTCAACTACTG
ACTGGCTAAGATGGGGCCTGCCCTTGCCAACTTCACCATACAGTTTAGA
GCAATCTTTAAAGTGGCCTGAGCACCTGGACTATCATCTTGACTACAAAG
TACCT

>Sequence 95

AGGTACCTGTATGATAACATTGCAGTCAAACATATCTTGTGACAGGACAG
TTTTTTGTGGGGAGGAGAAATTAGACCAAGTTCGGAGATATATTTTAGGAA
CTAAAAGGAACGTAAGATCTGGGGTAGGGGGATGAGCAGCTCCACACCCT
GCTCCTGTGTGAGCTGTGCGCTCCCGACTGGGAAATGTCTAACTCCATCG
AAAACATGAGATGAGGGGCAGGGAAGGGGCTACTTCCAAGCCTTTCATTA
TAATACTGTGTGAACCTTTTGCATATTTTCAGAAAAGAAACCAGTAAGG
TGGGTTCAAGTTGTGGGCTCATCCTGACTTAGAAAAATTTAAATAATTTAG

Table 2

CCCATTGAAATGTTGATAATATAAGGCATGCATGAATAATAATTTTGTCT
TCTTIN
>Sequence 96
AGAAATGTCGCCAAACTGCCGTCTTCCCTCCTCGGCCGCTGCGACAAACA
CCCCACAAAATGGCGGCAGCGCCGTCGCCCTAGAATCCCCCGAGTCGCCT
CTCCCCGCGTACCT
>Sequence 97
GTATGTCGTTGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTCCCCTGAGG
AGCCCCCTTCAGAGGGGGCGAAGAGCAGTATCTTCAGAGGCCATCCAAGTT
TTAGCATAACAAGGAGGGAAAGAGAATGCAGAGAAGAGGCTGGTGATAGA
CAAGTTTCATGTTTCACTTGAATTGCAGAGGTCAAGAGTTTAAAGAGT
TTGGGATGGAAAGAAATCGAGAATTGGGCT
>Sequence 98
GGTTCGATGGTTGAGCTCCCCGCGGTGGCGGCCGAGGTACCAGCAGAGAT
GGCTTCAAGATGATTTAGGACTTGGGTCAGTAGCACTTACTGATGTAGTG
GTTTGATACACACTGATTACCTTCTTCTTTTATTCTCTGGCATTCTCT
CCTATATAACTAGCCACTTTTAAACAATATTGTGCGGCTCTTTTCTTCTG
CTTGCTGTAAATATTAGGGTTCCTGAGTCCTTACCTAGATTTTCTTCTC
TTCTTACTCCTGGCCTTCTTGGGAGAGTTCATAATTCACCTACTCCAT
CTAGATATTTGTGATGTCCAAACACATCTCCACGTTAGGCTTCTATTTGT
AGCATCAGACCCACACTTTCAACTGTCCACTAGATAGCCTCACTGGATG
CTCTGCAGGCCTAAATAACCTTTGCGGACAGATTAACAGGGAAAAAATAT
TAATAGGAAAAAATATTAGATTTTATCTGATGTTAATATTTCTATGTGG
CATGGAGGACTTCACAGANAAAAGTGAAAACCTCTAAAGCAGTTAGATTG
AGN
>Sequence 99
TCTCTTACACACTCTATATGCATATAATTACAATCCTGTTTATATAGTAT
CTTCTTAGTATATACTAACATCTATTAGTCAAAATATATATATATAGAT
TATACTAATTATCTAAACATCCNCANTAAAGAACAGTTTCCATTCTGA
>Sequence 100
GGCGAGGGATTGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTT
TTTTTTTTTTTTTTTTTAAATATGTTTAAATATGCATATCATCCAGGC
AGCATAATGTTATATTTCAAAGACAGATTTATCCATTGAATTATTGTTT
TAAAAGTTGGGATTCTCTACATAGAACATATTTTCTGAAATTTCAAGAAT
ATTTTCAGGTAAATTAAGAATTAATTTCTTCTAAGACTATCCAATGTGTC
TCAATCTATTCCATAATATAATCAATGATAAAGATTACATGTATCACCA
AATTCGAGGCAGCTTAGTTGAAAAAATTTGAAACAGCTTACTGAATTCCA
TTTGCTGATTCTGGGGGGGCTTCCCAATGGCATGTGTGCTCCTTTGGAT
GCCTGCAGGGGTGGTCACTGCAAGTCGTATCTGTGCCACTGGGAGTTG
GGAGGCGGCTGCTGGGGTCCCTGGGTGGCAGGATTTACACCTGCTCCT
CCTGCTGGAAGGCTTCCATCCTGGACATCTGGATTAGCCCCG
>Sequence 101
CTCTTCATTTACACTCTACTGTATTGTTACTATAATATACTTATATATCT
TTTCAGTCTATAAATTTGTATCTTATAAAATTTTATTATTCGTACTTTCTAC
TCATTATTATATATATTACATATTAATATTTAATATTTTATAGTTAGGAGCT
CACGTGGTGGCGGCCGAGCCCAATCTTGATTTCTTTCCATCCCAAACTC
TTTAAACTCTTGACCTCTGCAATTCATGTTGTGAACATGAACTTGTCTA
TCACCAGCCTCTTCTCTGCATTCTCTTCCCTCCTTGTATGCTAAAACT
TGTGATGGCCTCTGAAGATACTGCTCTTACCCCTCTGAAGGGGGTCTCC
TCAGGGGAAGGTACCT
>Sequence 102
TCGAGGTACCATAATAATGCAATTAACAAAATCCAGGATTTAAGGATTTT
TATAAGATTAAAAAATAAGGTGGTGTGAGTGGGGAGAGAAAAAAG
CAGGAAACAAAATGTTGAGAGGAAATGACCCCTGATGAAAGATCTTAA
ACACCAGGCTGAAGATTTTAGATTTCTACCTATTAGAAATGAATATTCAC
TGAGGTTTGATGAAGAGTCACTGAAGTGTACAAAGAAAAACAAGATTTGA

Table 2

GAAAGATTCTTGAGAACTCGTGCATAGGAATGAACTGCAATAAGGGCAGA
TTAGAGAAGAACTAGGCCATGAGGGCCTAGTATCCAGAAATGAGGCAGAGG
GAGGGACGCTGGATGTGAGCAGC

>Sequence 103

TTCGACGCGAGATGAGCTCCCCGCGGTGGCGGCCGAGGTA CTCTTTCTT
GTTTAAAGCCTCACCCTGACCAGGAAGTCTTGATAGAGCCATCTAGTAA
TTCTTAAGTCCTACCTCATCCAACCTTGTTTTGACTCCTGCAGTGAGCAC
AGCTTGCCCTCACCTCCCTCTCTATGCCCTCACCTTGCAGGAGACTC
TCAATTTCTCAGTCCACATCAGCTCTCAGACCACCAAGCAAGGGTTATT
TTTTCTAAAAGACATTTGTTCCCAATGTTCTCTGACTAAAGTTCCTAC
TTTGGGACATTTGCCCTTGCCACCTCAAGGGCCCTTCAAAACGGTTGAG
ACCGAAAATTTTTTAAAACCTTAAAACAACCTTTGAAAAATTGAATTTGG
TGTAATTCGCGCCGGTGAAGACCCCCCGCCCTCTTTTTTGGGGCTAT
ATTTTACCTTACCCCCGGGGGGGGGGTCCCCCAAAAATCTCAAA
TTCCCTTATAAATTTTCAGCGCGTGGACACACACTTTCTAAATCGCGCGC
GGGGTGGGGCGGTCTATTTCTTTCTCTCTCTCTTCTTGTGTGGGGGGC
CG

>Sequence 104

TCGAGTGGATGAGCTCCCCGGGTGGCGGCCGGGACACGTAACAGGGTGGT
TGCATGCATTCTCAAGTCTGTATGACTCTACCAAGATACTGTGAAG

>Sequence 105

GACGATGTGAGCTACCGCGGTGGCGGCCGCCGGGCAGGTA CTTTCTAGG
TATATCATGTGCCCTAATGTGCTCCTAATATCATAAATGTTTACTTTCCG
AAAAGTATTTCTGAAAGGGAGCATATTTTGGAAAGTG CATAGGCTTGTA
TCATACTTGTTTTCAAGTTTCAACTTTGCTATTCAACTAGAATAATCTTG
TGCAAAACCTGAGCTGATTTTCTCATCTATAAATGGAAACAATACTTTC
TGTGATAATGGGTGCAAAACACAAGGTATACTGGTTTCTTTGCTCTGGAT
TCAAGTTTTCTTCTTAGTTTCAAAAATTTAAAGGGAAACCAAAAATGTTT
CATGGCCCAACTTTGCAGAAAAGGATTTTCTCAAAAAAGAAATTAAGG
GGGGGTTTTTTATGGGACCCAAAAGCGTTGTGGCCAGTTTTAGTAATT
TTATAAGTTTTGGGACTCCTCTAACACCTTTTTATAAAGCGCCCCCTTGG
GTGGGGGGGGTTATTTTTGGGGGGGGGGTAAAAAAAATTTTTTT

>Sequence 106

TTTTGCGTGAGCACCCTCGTCCGGTAGTGGGCAGCGATCAGGGCTGGGG
CTCTTTCTGAGTTGTGTCAGGTGAGAGATTGTGAGA ACTTGGCTTG CAG
GGTTTGGGCATCAGCTGCCATTGAGGGGCCGTTCA TTGTCTCAAAGTGA
ATGTGGGGTGGTTTGATCTGCATGTGTCA TTTGTATCCACACAAGTTAAT
TATTCTGCTTTTGTGTAGTACCTTGGTTGTGAAGCAGAAGCTACCAGGC
GTCTATGTGCAGCCATCTTATCGCTCTGCATTAAGTAAGATGAGGATTCA
CTCTTAATTTATGGGCACAATTTAGTTTCTTCCACACAAAATTTAGGCCTT
AACTCTTTTATTTTTTCTACAGTGGGGGTTTGGAGTAATATTCATACGG
CATGGACTTTACCAAGATGGGGTATTTAAGTTTACAGTTTACATCCCTGA
TACCTCTCCAGACCGTGACTGTCCAGTAGTTGGAGCACAGTCTGCTTTAT
TGTGGTCCACAG

>Sequence 107

TGTTTTGTGGTCACCACGCGTCCGAAATAATTGCAGAGAAAGCTTGCCA
ACGGTGATAAGTAGGTTTGTCTAGCAGCACTGATGCGTCGTGGAAGTTGA
TGGTCATGAACATACAGTGTGATAACCTATCTGCCCTCTTGACCTTTTCT
AGTAGTGCTATGTCA TTTTGGTACTAAGGTAGGTGAATTTTCCAAGTGT
CTTGAAATAAGGAAACATCAAGAATAATGTAAAAGCCTCATATACAATA
ATGAATAATAAAGAATAATGTGAAGGCTTCATTCAAGGTTGGGGTTTGCC
AGATACATTGCAACAAAATGACAGAGCAGCCAAGGTATTTAGGATAGTGG
CCAAAGGATTGTAATGATGGCTTATGGAAGTGT CAGCTGGATAAAGAGTG
AAAATGAATAAAAACTAATGGATTGGTT CAGTCGAATAGCAGACGGCACA
ATGGCCCATGGCCCGTTAGAATAGGGACCAATTAAATGGAGACCA GTCA
AGTGGGGGGGATCAT

Table 2

>Sequence 108

TAAATGTGCCCACCGTCGAATGGATTCTACATCAGGTGTCTGTGCCTCGC
TGCTGAAGGATAACCCAGAGTGCAAGGTCATCTTTGTGTGCTGAACAGGGC
TGGACCTGTGCGCACTTAAGCACACTTAAAGGATTCTATTCTTCATTTCAGG
TCCCCCAGAGAAAATTGGCTCCTTATTTTTCTTTACCTATTCCCTAGACTTC
CTTTTGTCTAGAGCCAGTTTGTCAAAGGGCACTTTTATCCATCTCAGTTA
TCCCCAGAGGTGACAGAATGAGTAAACCATATGGGGCAAATAGCATATAT
GAGCTAAACCAAGTTAACTGTAAACCAAGGCACATGGTCAATGCCTTAGTA
TTTTTTTTTTTAAATCTTCTAACGGTATTTCTAGCTGTACATTCCCAA
GGAATGGGTGGAAGCAAATCGATTCTGGAAGGGTCAATGGTCTTCCAGGT
TAGGGAGAACCCAGTCCAAGGGCCGGGACCTTTTTCTTGGAAAGTGCTG
AAACCCGAGTTTTTC

>Sequence 109

GAAAAGATGTGGAGCTCCACGCGTCCGAGACACTTCTCTGACTAACCAT
AGACTATGTGGAAAATGGTAGCTGGATTGCCTTTGGGTGGAGTCCTTGCC
CTGTGGCATAGGAAACAAAGGAAAGGAGAGAGATGCCCTTTGAGATTAA
GAAAATGCTCTCAGCCAAATAAAATCTAAAAATAGCCTCCTTGTGATACG
AACGCGTGGCCCTAAGGGTCTAAAGAGAGAGCTAGGGGAGGTTTCAGCT
GGCCACAGAGATGCTAAAGGTCAGGAGCAGACTTTTAGGGTTTGCTGTTT
TATAGGTTTAAAGACCAGGTCTGTGTTTTGATAACTGAACTTGCTAATAG
CTGGCCACTTGAGTTGCTTCTTCCAGCTCTTTGTTTGTAAATAAAGA
GATTCAGCCAGTAATAATGGGAAGAGCTGCAATGACTTCCCCAGTTGGG
AGTGCCTGCTTGTTTTTCTTCTGCTGGGCATGCTGATGTGCAGGCCAC
ACTCACAGACTTACACGCTCTGAGGAGATAGCCC

>Sequence 110

TGTTTGACGCGCGTAATACACTCCTCTGTTTTTACAGTGCTGCCTGCACT
GTGACTAAGACTTTCTGGACTATCATCATGTTTAGGAGTTGATGAGATTA
TAGTTTCATGTAAGTGATCATTAGATGACAACTCTACATCTTTAGGCAT
GGAAACAAACATTTTTCTGGAAGAAAAAAGTGAACATCCAACCTCCA
TTTAAACAAATTTGATTGTTTCTTTGCTATTAAAGAACTCGGTGCTCTTT
CTCCCACTCTATTATATTGTCAAATACATCTGGAGACACTATATAAACT
TTTTCTCCTTTAAATTACCTGGTTTATATATTATCTCCTGTAGCCTGCAT
ATAGATAAAGGTTAAACATAGAGGATTTAGGTTGTTGGTAATTTAATAAA
TATCTTCTTTTACAAATCATATAATTTTTGTTGTTGATTTTTTAGAGAC
AGGAGTCTTGCTATGTTGCCCAACTAGTTTGAATGCCTGGCTTTAAAG
GGAATCTTTACCTTAGCTTTTTGAGTAGCCGGCCTACA

>Sequence 111

GTTTGAGGGCGACACGCGTCGCGGGATTGGACCGACGCAGCCATGGTAG
GTCCAGATCCCGTAGAAGGGAGCGGGGTCCCATAGGTTACGGCCGATTCC
TGGAGCTTCTGGACTGAGGGCCGCGGTAAGCAGTGGTCTGGGCTCCCGC

>Sequence 112

GTAAGAGGGCGCGTGGCCGAGCGGTTTGCATCGCCAGCTCGCGCAAGGCC
ATGAGGTTGGTCTGGGTGAAGAACGCATCGATGGCGGCACGGGCCTGTTT
CGGCACGTAGACCTTGCCGTCACGCAGACGCTCCAGCAATTCGCGCGATG
GCAGGTCGATCAGCAGCAGCTCATCGGCTTCTGCAAGACCCAGTCAGGC
AAGGTCTCGCGCACTTGCACGCCGCTGATGCCGCGCACCTGGTCGTTGAG
GCTTTCCAGATGCTGGACGTTGACTGTGGTGAATACGTTGATGCCGGCAG
AGAGCAATTCCTGAATGTCTTGCCAGCGCTTTTCGTGGCGGCTGCCGGGG
GCGTTGCTGTGGGCCAGTTTCGTCCACCAGCACCAGGTTGGGCTTGGCGGC
GAGCAGGCCGTCTAGGGCCATTTTCTTCAGCATCACACCGCGGTATTTGG
AGCGCACAACCGGGTTTTGTGGCAGGCCGCTTACCAAGGCTTTCGGCTTG
GCGCGGCCCTGGGTTTTACCAACCCCGG

>Sequence 113

GGAGATGTCGCCACGATCGGGCGCGGCCAGCCGACTGGACCCCTTAGCCT
CGAGGCCTTTGCTGAAGCTCATGTGAGGGGGCGACTGCCCTGACAGGTG
TTGGATTCCAGCTGCTGTGGCCCTGAAGGTGGGTGGTGGGAAGAACGGGA

Table 2

GAATGAAGCCAGCCTTGGGAGAGGTAGGACGCCAGCCCGGCCAGCTGCT
TCCAGCATCTGGATCCAGCCTCACCTGAAGCCAGCCACCTTCTGGACTGC
AAAGTCATTGTCAACACCGAAACACAGGGTTTCTGACCATTGCAACCCAG
GGTCCCGGCGTGTCTGGCTGCAGACCCTGCAGACCCCTATGAAGATGGT
CCTGCCTGCCTTGCATCGGGCCTCTAGCTAGGGACTGTGGTTGCAGACGT
ATTTCTGGGACTGAGCCTCTGGTTAGAGGCCAGTGGTGAGGGAAGAGAGA
CCATCAGAGAAAAGAGTGGAGCCTCGGGCTTGTAGCAAATGGCAGAAAC
CCGACCCTGCAAGAGGAAAACATTG

>Sequence 114

TGGAGATGTGGATTGAGCTCACCGCGGTGGCGGCCGAGGTACGCGGGAAG
CAACTGTCAGCTAGTGAGATTACTGTGTATGGCCAATCCAGATAAAATAAG
ACGATCAAGTCTTTATGAAAAGGAAAGAAAAATTTGGAATGCACATCTCT
GTCCAGCTCAATTCCTCACTCCTTTTTTAAGATGGAGAGCTGTTAGGTTT
GTCTACACAGTAGGAAACACCTGATTAAATAACAGCATGGAGCCAATCTT
GACAAAGAAATTGGCTGCATCCAATAGAATCCCAGGGCCGGTCTGTGGTGG
CTCATGCCTGTAATCCCAACACTTTG

>Sequence 115

TACGTATGACTCACCGCGGGCCGGAATCGTTGTACCAGACCAGGCCCCCA
GGGCCCAGCTACTCGAAGAACAGCCAATGGATTGGAACGTCCTAGGACAG
ATGCCACGGCTTTGACCCAGGCTGGGGGTGCACGGATCTCACTGGGGTTA
GTTGGTCCGAGGGGAAGCCCCATGGGTCCACCAGGATGAGGTGTTTAAC
TCTATCAGGGTACCT

>Sequence 116

GGTGATGATGAGCTCACCGCGGTGGCGGCCGGTAGCGCCGGTAGGCGGTG
TGGACCAGGGGCTCGTGGTGGCGGCCAGCGAATTGGTGACGACGCTGAT
CTTCACGTTGCGCCCGGGATCTCGCGCATCACCTCCAGCCCCGTGGCAC
CCGGAATCAGGTAGGGCGAGACGATGGTCACTTCGGAACGCGCGCGGCGC
ATCTGCTCGACCAGTTGTAGCGCACGCTGTGACATCCAGCAGCGGCAC
GCCGCCGTACGACGCGGTCTTGCCGATCACGCGGTACGGCGAATCGGCAT
ACGCCTCGGCGGTGGTCCAGATCAGGCCGAGCTTGCCGCGCTTTGAGGTC
TTCGACCATCGGGCTGTAGCCGAGCAGGGTCGTTGGGCGCGGGGGCTTCG
CGGGGCCGNCGTTGGTGTGCGGGGGCCCGGGGCGGCGTTCAAAACCGCTT
TTGCAAATTCTTGGCGCGGGCAAGGTTGGTTCGCCAACCAACGACTGGGGAA
TCGGGCCGCTCTTGAACAGGGTGGGATC

>Sequence 117

GATGATGAGCTCACCGCGGTGGCGGCCGAGGTACTCTAATGGAGCCACTC
AGGACTGTCTTAAAAAGACAAAAATACCTCCTACAGTTGTTATCATCAAC
GTCAGTTGCTGGCTTTTCCTAAATTTGTCTTCTACCTCAGATCTAAACCA
TTTGATAACATTAGGGCAATATCATGGCAATCGTGGCCAGTAAATCCAT
AGCAAATGTTTTCTCCCTAGGACACTATCTGTTTTACAGGAAAAATTTTT
CTCATAGAAAAACTGTAGGAAAAAGCCATGGATGAGCTGAGAAGACCAAAC
CTATCTCTTGAAAAACAACAGTAGGGAGCGTGGATTAGAATGTCTTGGGT
GCGTGAAACAGGCAGACAATCCTGAAACATCTTTCTGGGGACGTAAGGC
ATGAAAAATTTCTATACACTTAGGAGGGCTTCTAGGAAACAGGAAACGAC
AAAAATGGAATGGGCTTCATTCAATTTTTTTTAAACACATGCCTTACAG
GTGAGGTTCTTGAGGGGCCTGGAGAAGAACACCAACCCCTTTCAGCT

>Sequence 118

TGTAGATGACTCACCGGTGGCGGCCGAGGTACGCGGGGAACCGAGGCAG
CAGCGGACGTGAGCGATAATGGCGGATATGGAGGATCTCTTCGGGAGCGA
CGCCGACAGCGAAGCTGAGCGTAAAGATTCTGATTCTGGATCTGACTCAG
ATTCTGATCAAGAGAATGCTGCCTCTGGCAGTAATGCCTCTGGAAGTGAA
AGTGATCAGGATGAAAGAGGTGATTACAGGACAACCAAGTAATAAGGAACT
GTTTGGAGATGACAGTGAGGACGAGGGAGCTTCACATCATAGTGGTAGTG
ATAATCACTCTGAAAAGATCAGACAATAGATCAGAAGCTTCTGAGCGTTCT
GACCATGAGGACAATGACCCCTCAAGATGTTAGATCAGCACAGTGGGATC
AGAAGCCCCTAATGATGATGAAGACGAAGGTATTAGATCGGATGGAGGGA

Table 2

GCCATCATTGAGAACGGAAGGTTCTGAAAAGCACATTCAGATGATGAAAA
GGGGGCAGAGAAATAAAA
>Sequence 119
TAAAGCGACCGGTGGCGGCCGAGGTACCTGAACACCAGGCTCTTTACG
GTCCCTGGCCAGTGAAAGGGTCTAATATAAACACACCGAGGCTGAAATA
GCCGCTGCTGTGAGACCTTCCTCAAGCTCAATGACTACCTGCAGATAGA
AACCATCCAGGCTTTGGAAGAACTTGCTGCAAAGAGAAGGCTAATGAGGT
GCTGTGCCATTGTGTATGTCTGCAGATTTCCCGAGGTTGGGATGGGTTT
ATCCTACAACGGACAAGATGAAGTGGACATTAAGAGCAGAGCAGCATACA
ACGTAACCTTTGCTGAATTTTCATGGATCCTCAGAAAAATGCCATACCTGAAA
GAGGAACCTTATTTTGGCATGGGGAAAAATGGCAGTGAGCTGGCATCATGA
TGAAAAATCTGGTGGACAGGTCAGCGGTGGCAGTGTACCTGCCCCG
>Sequence 120
AGACTGACCGCGGTGGCGGCCGAGGTACCGAGCTACCAGGCTGTGGAATG
AGACCGGGAGCTTTTTCTGTGCTAAGATGCCGTTACGGAAACATCGCTGTC
GTTTCAAGAGCTATGGGCATTGTTTCACA
>Sequence 121
TGATTAGATGAGCTACCGCGGTGGCGGCCGAGGTACAAGTTTATGTTTT
CCTTGGTGTAAGGCTTTAACAGTTCCACCTTTCAGCTGCCTGGGCATTG
ATTGCTCACCTACCACTATGACTAGATATGATTCCATGTGCTTTTACTA
GATTCCTTTGTCTCTTGTGTATGGAAAGTGAGACTTTAAGTAATAGTTACT
GCTGAGAGAAATAGAAGACGTGACAACGTTTGTCTTCCCATTCAGTAGTC
AGCGGTTGAATGGAATTATCTTCGTTTTTGGACTGACAGATTTGTTTTAC
AATTCAGCTATTTCCCAAGCCTTACTATTCAAAGCAGAACCCTTCTGTCTT
CTTCTGTAGTTGCTCTCTCTCCCTATATTCTGTTGTATTTTTTTCAAAT
AACTTATTACTATCTCAAGTAAATTTGTTTTATGTTTTGTTTTATCTAC
CCTCTTAATCAGGGCAGGGATATGTCTGTTGTATATTTTACTTTTCCCAA
ATCATAAAGTTTTTGGGAATCTGCTGGTTATTA
>Sequence 122
AGGTACACACTGGATCTCCTTACTCATTTTTTAACCCTGACTGGGACACCA
GAGACATGCTGCATCTTGTATTAGGTGTTTCATCTTGCAGAATGGCTGTG
CTCCTGAAATATTTCTGTGAAGAAAATTGTTACAATCCCATTACATCAC
TGGCTTTTATTATTAATTTGAATGTTGGCTGGAAACAATTTTAACCCCAA
ATTGTGACAAACAACTATATGGAAGGTCCTGCCCCG
>Sequence 123
GTTGATGCTACCGGGTGGCGGCCGCCCCGGGCAGGTACGCGGGTGTGCAA
CTGCAAAACCAAGTAACCTGCTATGGCCAATTGTGAAGAGATGGGAGTCTCC
CCGTATTGCCAGGCCGGTCTCAAACCTCTGGGCTCAAGCAATCTTCCCG
CCCCACTTCCCGAAGCCCTAGGATTACGGGAGTGAGCCACCGCACCCAGC
CAGAAAAACGTTTCAAATATTGAAAAACCTTACTTTTTTCAATGAGCATT
TTTGCATCAAGGGGTAACAGGGACATTAGGCTTTTTTCTCTTAGACTCC
AAACAGTAAGGTCAGAATTTATCAAGACATTACATAGGAGTAAGGGCACA
GCCAGGGGTGGTGGGNGGAAGGACATTTTCCAGCACTAATTAACAGGTT
TTATGATTCACTAGGTTGGCCCACTACTGTTCTCACCTAATTTCCAGGC
CAGCGTGTGAGGAGGCCAAATGACACTNTCCAGTGCAAGTGCTTGTAGTA
TGAAGGGGGCAGAGATCACCTAGTGACCA
>Sequence 124
AGAAATGTCGCCAAACTGCGTCTTCCCTCCTCGGCC
>Sequence 125
TTAGAGATGAGCTACCGCGGTGGCGGCCGCCCCGGGCAGGTACAGACTTT
CATTCAACAAATATTTATGCATCAGCTACATGCCAGGATCTGTAATAGAT
TCTGGGTGTGCAGTAGTGATTACTGCAGAATGCAGACATGGTCCCTGCAT
TCTTGAGAGGGAGACAGCAACCAATAAACAATTACAAAAAGTATGTAA
CTAATTAACAAGTGGGAGAAGGGAGTGGGATTACACAGCAGAAGTGAAG
GAAGGGCCCACTTAGAGTGGTCAAAGGCTTCTTGAAGGTAACATGTAAGC
TGAGACCTGAAGAAGGATGCAAAAGGGCCAGCATGTAAGGAACAGAGAAT

245
Table 2

AAACATCCCAGAAAATAGAAAATAACACACAAAAACCTAAAAGTCATTAAAG
AACATGATCATCTTTCAAGAACTAACCTTGAGATCAGAGTAGTTTGATT
ATAGAGGAAAGGGGTGAGTGCAATGAAACGTTAAAAATAGCCAGATCACG
TAGAGCTCTCTAGCCTTTGGTAGAAAAGG

>Sequence 126

TTATGATGATTGAGCTCCCCGCGGCCGGAAGAGCAACCGAGATGAAGGTG
AAGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGA
CTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCCTTTTGAGG
TCCCACGAGAATATATAAGAGCTTAAATGCTACCAAACCTGGAACGAGTA
TTTGCAAAACCATTTCCTTGCTTCGCTGGATGGTCAACCGTATGGAGTCAA
TTGCTTGGCANAGCATCCAGAGAAGCTGGCTACTGTCCTTTCTGNNGCGT
GTGATGGANNAGGTTANAATTTTGGAATCTACTTCAGTGGGAATTGTATT
CCGACCCTCGGCCGGTTTTAGACCTAGGGGGATCCCCCGGGCTTGAGGA
AATTGATTATAAGCTTAATGGATCCCCGCCACTTTAAGGGGGGGGGCCC
CCCCCAATTTTTTTTTCTTTAGGGAAGAAAAACCCCCCGGGGAAA
AAAGGGAAAAATTTTTTCGGGGGAAAAATTTCCCTCCAAAATTTCCA
AAAAAAAAAAGGGG

>Sequence 127

ATATGGCTCACAGCTCGGCGGGCGGGTACTGAAAGTGAGGTGAAAAACA
AGAAAGCTGAGAGAAATCAACATGTTCCCAAGTGCTGTATGTGAACAATA
AATCTGAGACATACCTCTAAGGCTTTTCCAGAGACAAGAAAGCTCTCAAC
CTGTAAAGAATTCTTGGGACATGACTGAGAGCAATGAGAAGTCCAGGCAG
AAGGTTAGCAGATATAGTGTAGAGCATACACAGATATACTATAGTTCATA
ACACTGGTGGCTTAGCTGTAAATCACAAAATAGCACTGGAATTATACTAG
TGATCATAGCACATAGTCCAAGAAGAAAAATTTTGATCTTGTCTTAAA
CTTTGTGGAGCCAGTGGTGAAATGAGTCACACAAAGATGCAACAATGNAT
GAACCCAGCCCTCTTAGACTAACATATTCTTGCCCATCACCACCAATAT
TACAATAAAAAATCAAGACACATGAAGGAGCATACCTTTTTCTGAAAGAAA
TATTGCTTACCTCAGTCTCTATGGNTATTTGATGCAAAACACCCAGCATG
CAATTTGAATCAATAAGACATGGAAAGGGAGCAAAATGTAATCATGCTA
AAGAAAAAAAAGAGTGAGAAAGAGACAACAAAAGCAGATCCAGAAATGT
TAAACTTGTGCATTATAAGGGAGGGAGCTTTAAATACAATATTNTAATT
TAGAACATCTAGTGAAAATGTGATCAGATTTATCAAGTAATGGAATTTGA
ACAGAGACGTAAAATGCTATATTTACAATNCATATTTTATATAAAAAGAG
TTGTTAAAAATAAAATTGTAAAAAACAATGTTTCAAAAATAAGATTATGTN
GATGGCTTACAGTTGAATAAT

>Sequence 128

GTGAAACAATGCTCATAGCTCTTGAAACGACAGCGATGTTTCCGTAACGG
CATCTTAGCACGAAAAAGCTCCACGGTCTCATTCCACAGCCTGGTAGCTC
GGTACCT

>Sequence 129

GAGACTACCGGGTGGCGGCCGCCGGCAGGTACAGTCAAGGCCGAAAAAC
CACTGAGCTTTTCCCTCTGCCTGGCACATATCCACTGCCCTGCCTTCCTT
CAGCTGATGAACTCTTCATATGCCTCCTTTTGGGTGTCAAGTGGAAATGTC
ACTTCTTTCTAGAAGCTTCTCTGGCTCTCCAGCCTGGCCCAGGGCTCCA
GCTATGAGCTTCCATAACACCCCTAGTTTTCTCACATTGCCCTCATAGT
ATATGGAATTTGTTCAATTGCCTGGCTTCCAACAGATGCCAGCTCC
AAGAAGGCAGGAGCTGCTTCTGGGTATTGCTTGCCATCAAGGCCCTCACA
CCCAACCTAATGCCTGGGCCAGAGTAGGTGCTTAATAAAAAATTGTTTGA
GGCCGGGCGTGGTGGCTCACGGCTAATAATCCAGCACTTTGGGAGGCCAG
GCAGGTTGGATCAGGAGATCAGGAGATTGAGACCATCCTGGTTAACACAG
TGAACCCCGTCTCTACTAAAA

>Sequence 130

GAGACTACT

>Sequence 131

GACAGTGAGCTACCGCGGTGGCGGCCGCCGGCAGGTACCTATCTGCAG

Table 2

AACGGTCATTAGCAGTTTTTCCAAACAAGCGACTTTTAGCAAATTAACCG
TTAATTTTAATGAGATTCAAAAGTTAATAGCCATTCTTAACGTTTTATAA
TTAGAAGCTGTTATATAATTAGAGCTGGACACCCACATGGAGAACTAAT
TTGACTGTGCTGCATTTGACTTCACTTTGGTAACAGGAAGCACTTTTTAG
TCTGTAGACCCCTTGGGAGTTGTAGGGAGTTAAAGCTGATCATTATATACT
ATTATATACTTAGGGATACAACCCAAGGGCAACCCCTGGCCTTTATGAAA
ACCTGGAGTGAGTTATTATTTCTGGTAATACAATTCTCTGCCAGCCAGT
TGCTGCATCAAAAACAGTTCTGATACACACCTAAAGTCACCACTTCCTC
ATTCTGGTCCCCAATAACCCCTATAAGCCTCTCTCCTGTAGGTGACCTCT
GCCCTGTGAAGGGTTGGCTCACCCCAAGATTCCATAAATAAGTTG

>Sequence 132

ATACGACTCCCGCGGTGGCGGCCGAAACCGTGGTGGCCGTGATCGTGCCG
TTGGCGGACCGAACCTTGAAGATGTTCTGGGCGGCCAGCACAATCGCCCG
CTTGCCGACGATGACATTGTTGGCCTTCAGCCCGTCAATATCGCCCTTGA
TGTCGATGTTCTGGCTCTCCTCATCATGGCTCAGCGCAATGGCGGCGTTC
GCCTTGCCGGTCGCCTCCACGAGGAACAGGGCTGCGGCCGTGACACATC
GCTGGACGCGAGGGTCAAGTTGCCCTGAAGCAGCCCTTCTTGCTCTGGG
TGACATCACCGCGCAGCCGCGTGCCGCCGGAATGAACTGGATATTGCTC
AGGCGTTTTTCTGCTCTGTGCAAGGCAAGTTCCGTGGCAAGATCGGCCCG
CACGCCGTGAGGAACGCCAGACCGGATACCTTGCCGTCCGCGCGTCTT
GACAGAAGTCCGTTGAAGGAGAACGCGCCTTCTGAGCTTGCCCCGAAA
GTTTGCCATCCGGAACCCGGCATTGAG

>Sequence 133

GATATCGAGCTCCCGCGGGGTGGCGGCCGAGGTACGATAATTCATGCCA
ATTTCTTTGGGAATACTTGTCTTGATATAATAGGTTACAAAGCAAAATT
GAGATGATTTTTAAATGCCATGCAGTTATTTTTCTGAATAACATAAAT
TTAAACAGAGACCTGAAAAAACCCCAAAAGTATTAACCTTTAAATACA
TAAACTCAATAGAAATAATTTAACTGCCTTCTCTTACAAGAGGCAATCA
GAAGGCAGGACTATAGTTTTCTGTGTTTCTTTTCCACAGGAGAGATAATT
ACATTTCTAGAGACCCATAGAAACAATTCCATAGTTTAAATTTCTCTCT
CTATCTCTAAGGGTGTGTCCAGGTATCTAACAGCAATTATCTTACATTGC
TGAATCAACAACAATGATATCACTGAAGAAATACAGGGAGACCCAAGCTT
CCTTGGATTGGCCCCCAAAATTTGGTGAAACATTTTAAAGGAATGGCT
TAACTCTAAAGAAAGGGAATTTTCTTTTGAATAAT

>Sequence 134

TAGAGATTGAGCTCCCGCGGTGGCGGCCGCCCAAGTGTTGGGATTACAGG
CATGAGCCACCAAGACCGGCCCTGGGATTCTATTGGATGCAGCCAATTTT
TTTGTCAAGATTGGCTCCATGCTGTTATTTAATCAGGTGTTTCTACTGT
GTAGACAAACCTAACAGCTCTCCATCTTAAAAAGGAGTGAGGAATTGAG
CTGGACAGAGATGTGCATTCCAAATTTTCTTTCCCTTCATAAAGACTT
GATCGTCTTATTTATCTGGATTGGCCATACACAGTAATCTCACTAGCTGA
CAGTTGCTTCCCGCGTACCT

>Sequence 135

GGAGAGAGGATGAGCTCCCGCGGTGGCGGCCGAGGTACCTCTCCTGCAG
GGCCCTCCATTAGGGTCTTCTGGAAAACCCCTGGAGGAAGCGCTCCT
GTTGCAGTCGGAGTGAACACCCGTCTTGTTTAAACCACGAGGGGGATT
CCTTTCTGGAGAGTCCATGTAGTCATCATCTTTGACCTCTGCATTTTC
CCCCAGAAAGGCGAGCATGTTACTTGTCTCTTGGGATCCGAATGACAAA
CTCCACCAGATGTAAATCACTTTCTAAACAATA

>Sequence 136

GACGTTGAGCTCCCGCGGTGGCGGCCGAGGTACTTAAAGTATATCAGGG
CAGTTTCATGCCAGGGAGCCAGGGAAGGCACCCAAGGAAGTGATGGAAGA
GTAGAAGTTACCAAGGTGCAGCTCAGGAAAGGGCTCAGCAAATTTCTCTG
TAACAGGATGCAGACCCCGCGTCTGCCCG

>Sequence 137

TGTTTGTGGATTGACACGGGCGGCGGCCGAGGTACTAAATTTAGCAACTT

Table 2

TATTCATGAGGAACACCAGTCCAATGGTGGTGTCTTTGTCCTTCATGCTT
ACATGGATGAACTCTCATTTTTGTCTCCAATGGAGATGGAGAGATTTTCT
GAGGAGTTTCTTGCTTTGACATTCACTGAGTAAAAATGAGAAAAATGCTGCTTA
CTATGCTTTAGCAATAGTGCATGGAGCGGCTGCTTATCTCCAGACTTCT
TGGACTACTTTGCTTTTAATTTCCCCAACACTCCAGTAAAAATGGAATTT
CTGGGCAGGAAAGATTTTGAACCAACCCCTTTTAAAAATTTAACTAGG
GGAACGGGAATTTTGGGGGGGGCCCCACCCGGGGGTGTCTTTGGGGGA
AAAAATTTTTTTGGACAAAAAATTTGGTGGTTTTTTCCCCC
CCCTTTTTTTTTTAAAAAAACCCCTTTTTTAAAAATTTTTTTTTT
TTTTGGCCCCCCCCGGGCCTCATTAATAAAAAAACACCCCGTCCCCGT
TATTATATATTTTTTTTCCCCCCCCC

>Sequence 138
GGTGAGTTGAGCTCACCGNGGTGGCGGCCGAGGTACTCGGGAGGCTGAGA
CAGGACAATTGCTTGAACCTAGGAGGTAGAGGTTGCAGTAAGCCAAGATC
GTGCTACTACACTCCAGCTGGGTGACAGAGTAAGACTCCATCTCAAAAA
AAAAAGAAAAAAATTTGACTTTGGAACCTCAGATTACATATCAGTTTGCAT
ACATGCTAAACAGAGAAATGTCCTCAAAATTCAGTTACTAAAAATTACTG
ATATCTCCATGATTAGAACCACACTGTGGTTGTGTGTAGTCAAAGGAG
GAGAATTTTTAATGCTATATAAGCATAACTGATAACTGCTATTACAAATA
AATATTCACAAATTTGGAAAGTTATTAGAGGAAGAATTTTTTTCCTTG
TAATTTCCAGGTATTATATTAGTTGGGCCATAGTAAAAATTACATGGAG
GAAAGAAAAATAGGAAAAAAGTACAGAAAAAGAAAAATCAAAACAAATAG
GAACTTTGGGAACAAGTGAGGTAATTTCTGCTCT

>Sequence 139
AGCCCAATTCCTGATTTCTTTCCATCCCCAACTCTTTAACTCTTGACCT
CTGCAATTCAGTTGTGAACATGAACTTGTCTATCACCAGCCTCTTCTC
TGCAATTCCTTTCCCTCCTTGCTATGCTAAAACTTGGATGGCCTCTGAAG
ATACTGCTCTTCACCCCTCTGAAGGGGGCTCCTCAAGGGAAGGTACCT

>Sequence 140
GAAAGTAGGGATTGAGCTCACCGCGGTGGCGGCCGCTGTGAAACAATGCT
CATAGCTCTTGAAACGACAGCGATGTTTCCGTAACGGCATCTTAGCACGA
AAAAGCTCCACGGTCTCATTCACAGCCTGGTAGCTCGGTACCT

>Sequence 141
TTTTGTGATAGAGCTCCCGCGGTGGCGGCCGAGCCCAATTCCTGATTTCT
TTCCATCCCAAACTCTTTAACTCTTGACCTCTGCAATTCAGTTGTGAA
CATGAACTTGTCTATCACCAGCCCTTCTCTGCATTCTCTTCCCCCT
TGTTATGCTAAAACTTGGATGGCCTCTGAAGATACTGCTCTTACCCCTC
TGAAGGGGGCTCCTCAGGGGAAGGTACCT

>Sequence 142
CTGCCGGGCCCCATTTGATTTAAAAGAATTGGGCCCCCCCCCGGGGAGGA
GGGGGTTTTGATTTTGGGGGCTTTTTCCCTTTTCAATTAAAAAAACCG
GGGCCCCCGGGTTTTGGGGGTTGGGGGGGGGTTTTTTTTTCTTAAGGG
GGGGTTTTTTTTTCTCTATAAAGGGGGTGGGGCCAAAAAATTTTCTTAA
TTTTCTTAAACCCCTT

>Sequence 143
CCTTTTCCGTTTTTCTCTAAAAAGACCCTTGGGCTCGGGGATTGGGTG
GGGGGGGGGGTTTTTTCTTTTAAAGGGGGGGTTACCGTTTTTCCCC
AAATAGGGGATCCCCCGAAAAAAATTTTTTAAAAAGCCCCCA

>Sequence 144
GTGTGGCGTTGAGCTCCCCGCGGTGGCGGCCGTTGCCCTTACATCTCTCA
TTTGGAAGTGACAGGTATTAATAACGGCATATGAAAGCTTAAAGTCAT
CAAATACAATCACTGGGTACTTTTCGATTACCCAAACCAGGCATTTCTTA
AACTCCCCACTTCTTACTTCTGCGGTCTCCTTTCTTTATTCCCCCGCG
TACCTGCCCC

>Sequence 145
GAACGATGGGATTGAGCTCCACCGCGGTGGCGGCCGAGGTACCGAGCTAC

Table 2

CAGGCTGTGGAATGAGACCGTGGAGCTTTTTCGTGCTAAGATGCCGTTAC
GGAAACATCGCTGTCGTTTCAAGAGCTATGAGCATTGTTTCACA
>Sequence 146
TGGACGACGGAAATTGAGCTCCCCGCGGTGGCGGCCGTCTGCTTAGCCAG
TTTATCTTTATTTTTTACTGGAGTCATTGCCAGTGATGGAAACGGTGT
TTGCTTCTCTTTCAGTCAAGATCTGCACAAAGTATAGCATTAGGTGGTAT
TTATTGTTTATATTATGAGTTCTACATTCATCTTCCAGCACTCTGAAGT
TATCAGCAAGTTCTCAGTCAGTTCAAGGCATTGGATTCTGCTTGATTCT
TTTTAATTCATTGTTTTTGACCCCTTTGAGAGTTTTAATAGAGAGGAGTC
TGGAAGGCAGAGATCTCCACCACCTAACCGTGAGAAATTTGGAACCTAAGG
ACTTGCACTGGTCCCCAAGTTAACAGTGGATATACTTCCTGCATTTTCTC
TGGTCTTTCTGCAATTGGGCAAAATGAATGAACGGGACCAGAAGGCCCTC
ACCCCTTGTGGCATTTCAGTGGACAGGACTGGGACCCGGGATTGGTTA
ATAACCCGAAAAACGG
>Sequence 147
TGAGGATGAGCTACCGCGGTGGCGGCCGCCGGGCAGGTACCCAAGGTG
GGCATTTTTTTAAAAAACCCATGGAAATAAATGCTACTTCTTGTTAGTGT
TGTTTGAAAAATAAACAAAGAAATGCAAAACAAAAACCAATGGTCCA
TTCAAGCTCAAGAGTATTTAACCAATGCTCTGTTGCCTCTTAAAGGATTG
GTAGCTATTTCCCATCTACAAATACATGACAATTAAGCCCAATTC
TTTAAAACTATCTGGAATTAGGTCAAAATATCTAATTTTTTCTGATT
AATTATGGATTACGTAATCCAATAGTTGGCAACATTATAAAACCCCTAAT
TTACCTCATTGTTTGGCTATACCAGGTCTCATGACTCTGGACATAACCAC
CATCCTTNTCCCAACACNCGCTACTCAAAGTAAACCCGGAGCTTCA
TGATAACCATGAGGCCCGCAGCTTCTGNCTCAAAGCTTTTCTGGCCTAAC
TTCCGCTGCTTCTTCTCACTCGGCGTTTAACTGGT
>Sequence 148
GGAGGACTACGGGTGGCGGCCGAGGTACCTATGTGCGCGGTGGTAGAAA
AGCACCTGGGTGCGGTGCAGACTGCGGAGCGGGCCCTACCGTGTGCGCAG
AAAGAGGAGGCGCTGGACTTATCCTACCTTAAGTTGAAGCAGACCAGCAA
TTGTTGTGACCTACAATCTCCACACCCATCTTACTCTGAGCCAAGGAAG
TGTCTGTTCTTGTGCTGAGTTTCAGGGGCCCTCAGCTTGCAGGAAATCCC
GAAGATGGCCAAAGACAAGTGAAGTTCGTTGCTTCCAGGGCCTGCTGA
TTCTTGGAATGTGATTATTGGTTGATGCGGCATTGCCCTGACTGCCGAG
TGCATCTTCATTGTATNTGACCAACACAGGCTCTACCCACTGCTTTGAAG
CCACCGACAACGATGACATCTATGGGGCTGCTTGGATCGGATAATTGGTG
GGCATCTGGCTCTTCTGCTGGCCGGTCTAGGAATTGTAGCATATGGAATT
CCACAGGAAATTCTCTGGCGAATTCATCTGAGGTTAT
>Sequence 149
TGCGTGTGATTGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTCCCCTG
AGGAGCCCCCTTCAGAGGGGTGAAGAGCAGTATCTTCAGAGGCCATCCAA
GTTTTAGCATAACAAGGAGGGAAAGAGAAATGCAGAGAAGAGGCTGGTGAT
AGACAAGTTTCATGTTCACTTGAATTGCAGAGGTCAAGAGTTTAAAG
AGTTTGGGATGGAAGAAATCAAGAAATGGGCT
>Sequence 150
TTTGTGATTGAGCTACCGGGTGGCGGCCGCTGTGAAACAATGCTCATA
GCTCTTGAAACGACAGCGATGTTTCCGTAAACGGCATCTTAGCACGAAAAA
GCTCCACGGTCTCATTCCACAGCCTGGTAGCTCGGTACCT
>Sequence 151
TGAGCTAGTGAAGTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTTTTTTT
TTTTTTTTTTTTTTGTTTTTTTCTGTCCCCTCTGAGCCATGGAA
GATACTGGAGTTAACAAAAATTTTATAAACTAAAGAAAGCAACTTTATAA
TCTAAAGAAAGCAACTTTCCCTCCTGTCTTTGAATTCTTATTCCTGAA
AGAATGGATAATGAATCAGGAGATGAGCAAAAACGTATCTTTACAAAGC
TCTAGTCTTCCAAAAGCCTCTAAACTCAAACGAAACCTTTTTAAAGTAGT
TTTGTAAGGCTCAAGGTATGCCATTTCCAGAAAGTTGCAGATGAGCACC

Table 2

ATTGGCATTACCCAAATTCTGTACACATTGAGCAATGAAATTCAGGAAT
TGGACAATGACCTCTTGGCATATGAAAGAATTAAGAGGGCTAGGGCTT
GGGCAAGGGATCTAATCGNGAGGGGATGTTGCTTTCCGAGGCTTCCCTTC
CTTCTTCTTTCTGGCTTTCAGGTAATGAAGAAA

>Sequence 152

GAGGGTCACCGGGGGCGGGTCCACCTAAAAAGTCACTGCAGCAGAGA
AGAAAACATTGGACAAAGAAGAAAGGCGACAGAAGGCTAGAGAGAGGCAG
CAGAAATTGCTTGGGAGTTTGTTCACGACAGAAAGGCTTTATGGAAAC
TGCAATGGATGTTGATTCTCCTGAGAATGATATTCCTATGGAGATCACCA
CGGCAGAACACAGGTTCCGAGGCAGTATATGACTGTGTTATTTGTGGA
CAGATGGCCCCCTCTCTGAAGATCGACCTACTGGATTAGTTGTACCTGC
CCG

>Sequence 153

CATGGCTCCCGCGGTGGCGGCCGAGGTACACCTGCAACTGTGCGAATGGT
CCTGTTGCCCTCCTGCATTTTGGCCTCTGTTCTATAAAGGAAGAGTAAAGA
TGGAGCTCCTCCTGCCTCCATCAGAAAGCACATATCATCTGTCCCTTTG
GATTTTACTTCCAGGACGCGTGTCTGCCAGCGTGTGTTGCCTTATGGT
GCCGGCAGAGCCTCAGCTATCTGCCCTGGGAAGTCGGATGTCCTTGGAGAG
AATTTGGAATGCAGATAATTTTCTTATTTCTTGAGAGCTTACTTTAATC
AGCATGACACTACCTAAACACTGAAGATGGCCTTATATTAGTAAGATTTG
CACAAAATTAAGTATACCTATGCAAATTTACTTTGGTTTTTAGGAGTT
TGGTCAGATGAAGAAGTAATGGGATCACATATATGTAAGAAGACAACC
ATCATTATTTTGTAAAGTGTATTTATTAACCAACTGGTTAACTTGTGAA
ACACAAATAGAAGTCGTATTATTAAGGTCC

>Sequence 154

TTTTGCGTTGAGCTCCACCGCGGTGGCGTCCGGCCCCCGCCTTTTCTGCG
GCTTTCAGCGCGCGTTTCAGGTCGTCAATGAGGTCGTGCGGCATCTTCGAG
ACCGATGGACAGGCGGATCGTGCCCTGGCTGATGCCTGCGCCCGCCAGCG
CTTCGTGCTCATGCGGAAATGCGTGGTGTGCGCCGGGTGGATCACCAGG
CTGCGGCAATCGCCACG

>Sequence 155

TATAGCGGACTCACCGGGTGGCGGCCCGCCGCGCAGGTTTAAAAAGAACAT
GTATAAACGCTTAGCAAAACCTTTTAAATGTTCTGAAGTCAGTCTTTGTA
AGTGAATCGCTGGAGACTAGAAAGTATGAAATGGCAGTCTACCTGGGCA
ACCTACAAAAAATTTAGCTTGAAAAGACTTCAGTCTCCGCTCCCCTGTTG
ATCTCATGGAGTGGGGAATGGGAATTGAACCAGAACTGGAAAATTATTTA
GGAAAGTTTGTTAACTACTCTTTGTTGATCTCATGGAGTGGGGAATGGGA
ATTGAACCAGAACTGGAAAATTATTTGGGAAAGTTTATTAATACTACTTTT
CTGCTGAGTAAATTTAAATGTGTTCTGGACATTGTTGAGGTCTAGAATTG
TCTATACAATGCCCTGTACCT

>Sequence 156

TTCGAGAGCTCCACCGGGCTGGCGGTGCGCCGCTCTGGTGCTTGCATCT
TGGCTTCCTATAGCTTTCTTTTACAGAGGCCATGAAATGCAATCCAGC
TGAAGTATTATCATCTTGTAGCATTTCAAAAGGAACGTCGAAGTCATCCA
AAGGATGGGAACCAATGTCTTGTGTTCTTGGGTTTCTTAATGATT
TCTGAATCATCATTATTAATTATGGAATTCTCTGGTCGAAAAGTCACATT
TGGTTTTCTCCTCAGTTTCTCACATCTTTTCTTGCAGCTCTTCTCAG
CTCTTCTTCTTGCCTTTTTTACTGTCTTTTCTTGTCTTACTTCAGGT
GGTTCATTTTGACCTTTAAAGTTGAAGGGTGTCAACATCACCTGTT
CAAAATAATTAATGTGTTAGTTTCTGTTGCCTTTGTTTAAACGCATTGAG
GTTTTAAGTTGATAAGTTGGGTTTTTGCACCTATTTCTGGGGCCAATG
T

>Sequence 157

GTAGAGGGTCACCGGGGGCGGCCGAGAAATGTCGCCAACTGCCGTCTTCC
CTCCTCGGCCGCTGCGACAAACACCCACAAAATGGCGGCAGCGCCGTCG
CCCTAGAATCCCCGAGTCGCCTCTCCCGCGTACCT

Table 2

>Sequence 158

TTTGCGGGCTCCCCCGGTGGCGGCCGACTCGCTGACCAGACCAGGCCCCC
AGGGCCCAGCTACTCGAAGAACAGCCAATGGATTGGAACGTCCTAGGACA
GATGCCACGGCTTTGACCCAGGCTGGGGGTGCACGGATCTCACTGGGGCT
AGTTGGTCCGATGGGAAAGCCCCATGGGTCCACCAGGATGAGGTGTTAA
CTCTATCAGGGTACCTTGC

>Sequence 699

TGGGGATGTGCCTCTCTGTGGCGGTGGCGGCCGAGGTACTTTTTTTTTT
TTTTTTTTTGTAGTGTTTTCTGATGTCTTTCTAACAAATCTTTGCCTG
CCCCAAAGTCTCAAAAACATTCTCACGTTTCTAGATTTTATAGCTTTAGCT
TTTGTGTTTGGGACTATGATCCATATTTAGTGAATTTATTTTTGGGGGGG
CAGAGTCCATGTTGCCAACTGGTCTGGAACCAACACACCCAGCTAATT
TTTGTGAATTGCGGGTACCAGCACACCGGCGCCGTCCTGGACTGCGCCTT
CTACGATCCAACGCATGCCTGGAGTGGAGGACTAGATCATCAATTGAAAA
TGCATGATTTGAACACTGATCAAGAAAATCTTGTGGGACCCATGATGCC
CCTATCAGATGTGTTGAATACTGTCCAGAAGTGAATATGATGGTCACTGG
AAGTTGGGATCAGACAGTTAACTGTGGGATCCCAGAACTCCTTGTAAATG
CTGGGACCTTCTCTCAGCCTGAAAAGGTATATACCCTCTCAGTGTCTGGA
GACCGGCTGATTGTGGGAACAGCAAGCCGATAGTGTGGTGTGGGACTT
ACGGAACATGTGTTACGTGCAACAGCGCACGGAGN

>Sequence 848

GGTACTGGTGTTATGCTTGTGCCTGTGTGAAATTCTACAGTGCTGAAAAAT
CTCATGCACTCTAGCTATGAATGCAGGTCTACTTGAAGCAAACTCTTCA
ATCTAATTGTTTTCTCAATCTTTGTAAACAGTTTAAAGAGTCACCAGAA
ATCTGTAGTTTAAGGCACCAGATACATTTCTTGGCTGAGCCTTGTAGGAC
CAATATGCTGGACCAATTCGGTAAAATACACCATAAAATTATGACTGCTTT
ATCTGAATGCATGGGACACTTGCTACGATGGCGGGAATTATTACCAGGAG
TTTAGGAGCCAGACATGGGTCTGTATTTTTTCATACATTGGTGATCAATT
CAAAATCTCTTTCTTTGCAGCCAGGTTTGGTCACTCTGGCCAGGAGTGC
AGATTATGACAAAAAACAAAGCTAAAAGACCTGAGCCATTAAGGTTACAG
TCTCAATACCACCGAGTTAAACAACCTATTTAAATGCAAGACTATTGATT
GGAATGATCCCGCTACCTGCCCGGGCGGCAAAAGG

>Sequence 849

GGTCGGCCGAGGTACAAAAGTTCTGAAATAACACTATAGGCTTAAGGAAT
AAGGACCAGAATAGCCTGGAGCCAGGTATTTCTGGCTTTATACATTCTT
TAGGAAAAAATAAAGTTTATAGATGTATTTAAGTAGAATTAAGGTTTACAC
AAATGATTTTTTGGAGAGAGAGAGTCCCTAGGACCTAAACATTTCGTTCTAC
GGAGATAGGGTCAACACGCAGATATTTATTTAGCAGCATGGTCTGCAGAA
GTAGGAGGAGGTGACCAGATGTGATGGATTATGCCTGTAATTCCAGCATT
TTGGGAGGCTGAGGTAGAAAGATTACTTGAGCCCAGGAGTGTGAGACCAG
CCTGGACAAAATAACAAGACATCATCTCTCAAAAAATAAAAAAATTAGC
GAGGT

>Sequence 850

GGTACCACCTAACAAATTGGAGGAAATGAAAAGACGAATCAACAACATTT
TGGAGAAAAAATTTATTCTACTTCTAGAATTTTACTACTACANAGTGCTT
ACGTTCTTGGTTTGGTAGATGAAGTGAATCAAAATTGGATATTTGGAAC
ATTAAATATGGGAGCAGAGAATCTGTGGAATTATTGCTGGAAGACTGGCA
TAAATTTATTGAAGAAAAAGAATTCTAGCTCGACTTGATACTTCTTTTC
AAAAATGTGGAGAAATTTATAAGAATTTGGCTGGAGAATGTCAGAAATATT
AATAAACAGTATATGATGGTGAATCTGATGTTTGTATGTATAGAAAAAA
TATATATAATGTGAAGTCCACTCTACAAAAAGTGCTGGCATGTTGGGCTA
CTTATGTGGAAAACCTTCGCTTACTAAAGGCTTGCTTTGAGGAGACAATA
GAGGAAGAAATTAAGAGGT

>Sequence 851

ACCTATATTCTATGCAAAATTTATAAAATAATCCTTGAACATGAAAATC
ATCTTAAAAATTACACGAATTAAGTAAGCATGCAATACAGACACTGCAGG

Table 2

ATGCCTGGCCTCTGGGAACTGCTCCTGTCTCTGTGTGAATGTAGAAGTGA
 GGCTCAAACCTCTCTTAGGAAAAATTTCCCTTCCCACTGCCCATCCATT
 TCTGCTGACTCAACAATTCACACAGAGGAAATGGGAATAGTATCATCAAC
 TAGCAGTCTCCCATGCCAACAGATTTGGGGTCTTATCTAAGTGTCTTCT
 GCAGCCGGTCTTCCCTTCTGACTTCCCGTATTGGCTCGTTAAAAATGATT
 AGCTGGCAATACAGGTATGTTTGGACTGCTATTGGTGGTGAAGTTAATCT
 TCTAACTGTGTTTTGTGAAAGGAAATATTCCTAAAAGCTTTGGTGTAC
 TTAACAAAAAACAATAATATGATTGAAAGAAATTTGAGATATTTTGT
 TTCAACAAAAACCACTGAGTTTATGTCTAAGAAGAAATTCATAAGCAT
 TTATCAAGTGCTTAGGATATGCTGCAATGTATGTACCTCGGGCGCGACCA
 CGCTAAGGG

>Sequence 852

GGTACTAGCAGATGATGGCACAGTGACAGCTGGGAGGGATGGGATGTGCT
 TGCTTCATGTCCCCCTCCCTCTGCCTGCCTCAACCTACACAGTCCTGTCT
 GGTGACGTGCCAAAGTCCTTCTGCCTTGCAGAGAGGCCTCTCTTCGTCG
 AACATGGGCCTCAGGAAAGACAGCCTGAATGCCACTACCCAGGCTTGTG
 GAAGGTTCTGCATCAGTGTGGCATTGTTGCGATAGCCCTCAGTTGATGCT
 TGTTTGTGGTGTGGGAGGCAGGAACACTTTAGGAGGGTGGAGGGGTGA
 GAATGAGAGAGGACTTGCCTGAGCCACCCAGCTGTGGTCACTGATGGC
 CCGGATGGCTACATAAATCCTGGGAGATCCGTTGTCTCTATAACCAGAGT
 GAGCTGGGCTCCAGACCAGCCCTATGGGAAGATCCTGTCTGTGGGAAGCC
 TTTGGCCACGTGTTTGTGAAAGGTGTGGGAAAGGCAAGGTCAACTACG
 TTTCTTTTTTGTCAAACCTCCGAGACCCTTGACCTTTGCCTGTTACCACTG
 GAAAGGGGCCATAGCCAGAACCCTTTAATATCACCTGGCTTCCTGCTT
 TCCAAAAGACTGTAAATTAATAGTGCTGAGGAAGGCCAAATGACGGGGG
 TGGTTTGACCTTGCCCTGCTTTCTGGCTTGGGGAAGAATAATGGCAGGGA
 CCCTTTTAGGGGTTGCAATGGCTCGCTGGAGGGGCAACCCACCCGTTGG

>Sequence 853

CCCTTAGCGTGGTCCGGCCGAGGTACGCACATACATACACTAACGCTC
 AGCATAAACTTTCCATTACACTTAGACAATGACTTGTGGAGGAAAAACAA
 GGATAAACAAAGAGTCTCAAGAACTTAAGAAAAACATCAGAGTTGATTAT
 TAGCACTTTCTCAGGATTCTAAGGCAATAAGCCTAATTCAAAACGTGAAA
 TTGTTCTCTATTTCCTATTAGTCATTAATGAGATAAATGACAAGCTATT
 GCTGCTTCTCCATTCTGTTTTTCAAAGAACATTACAAAAATAAACAGTGT
 GTTCTCTAACAGTTCTAAAAACAGTTTGAT

>Sequence 854

GGTACCAGAAGCAAGGCAGTTTAGGGACAAAGGGCATGAGCTTAGAGTCA
 GATTTCTAGGTTTCCAGATCCAAGCATCACTACTTATTTCTTTAAGAACT
 TGGGCATCTGTAAACCAGGGATAATATCTTCTTCAAAGGGCTTGTGTGAA
 GATTCAACAAGGTAATACATATAAACGTACAGATCAGTAGACCAGCCAA
 GAGTTAAAGGCCTCCGGTTGATCATTGAGAGGGCGGCAACGCATTACAAA
 GTGGTGGATAAGGGACCCGTTGGAGAGGTCTTAAACCTGTTTAAACAGG
 AACTGGG

>Sequence 855

GGTACCTGGGACTACCCACCACCATGCCCGGCTCATTTTTGTATTTTAG
 TAGAGACAGGGTTTCAACATGTTGGCCAGGCTAGTCTCAAACCTCTGACC
 TCAAGTGATCCACCTGCCTTGGCCTTCCAAAGTGCTGGGATTATAGGTAT
 GAGCCACCGCACCCAGCCTTCAATTTTTTTTAAATCTGATAGAGCACCA
 TCTACTACATGCTTAATATTATCCATAAACAGACATGTCTGAGCACAGAA
 GATCATGTTAATGAAAGATTATTGAAAGGT

>Sequence 856

ACAGAAAAAGCATAATGAATACAACAACACTAGCATCAAACCTCAGTGTATA
 TAAGAATGGCTAAGTGACCATTAGTCATGTGAAAAGCTTAACAACCTATTA
 AGCTCTTATTTTCTTACTAAAAACAATTTTAAGTTCTTTCAAGGCTATA
 GTTACGCTTTACATAAGAGGCCCTATTACCCACTAATTCTTAAATTTCT
 ACCTACTTAAATTTCTTTAGACATTTCCAAAGGTTAGTAAAGGAAGACA

Table 2

TAAGATATGCTTACTTAAATCCTTGCTGGTTCATGCCTGGCCATACATG
>Sequence 857
CCCTTGAGCGGCCCGGGCAGGTACCATGAAATAGGACCTTCTACGGT
TTAAAAATAAATGTTTGTCTTTTCTAGCCCTGTAGGTCAATGAATGCCTG
ACTCCAGTGACAGACCATAATTATCCAAATCTCTCATTTATGAATATGGA
ATATAAATATGCTAAATTGATTATGTCATGAATAGACTTCTTTTTTGCAT
AACAAATGTTTGGAGTTTCTCACCTTTCTCCTAGCCTTCTTTTTCTTCCT
AAATGTAGCCTGGAGGATTCTATCTATTCCATATAACTAAAAGTAAACG
TTTATTTAGGAAAGGGACTCAGGAG
>Sequence 858
GGTACAAATGTGAGTTCTTCTCCAGACCATCAATATAGATTGGATTATA
CACTGATCGCTGTGTCTCTCCTTCGTAATAACCTTACCCCATGTTGCAAC
AAACATGGACTTGTTACAACATCCCAGAGTGAAATCTGAATGTGGTCAAG
AAAGTTCAGAAACAATAAGAGTGATGCAATGCATACCACAACCTCAGGCCC
AGTGCAAAAGTCAGGCCCCAGCCCTTCCCATATAAGGGACTTGGTCATTT
GAAAAATGAAAACCCAAAAGGAACAACATAGGGACCTGTAATCAATTAG
AATATTCT
>Sequence 859
ACTGGCTGGACTTGAGGTGGTTTAAGTTGGCAGCTACATCGAAGGACTTC
TGAAAAGCTCAAGTGACAGTTACACCTTTGCACTCTCCACATTCACTGG
CCTTTCCCTCAAAACATGGATAATCTTCAAACCTCCCTGAACAGGTGGA
AATCGCTCTTTCCCTTAAGCCAAGTTCTCAGTCCACATTAGTCCATACTT
GGCTACAGAAATTGACGTTTGTGGCCACAATCCTACTAGAAATGACCTTTG
GGTAATATCCTTATCTTGTGATCTAGTTAGGGTCAAGTAAAACGAAATA
>Sequence 860
GGTACTTTATGCAGAAGGAAAGCAATTGCAGATGGAAAAAGCTGAGATGC
TATAAGGAATTACGGATTTTATAAAGAGATCACCATGTGGGTGAATGTAA
ATATAGATGAACAATGAAGCATAAACAAAATTTAATATCTTACAGGCTA
AAATATTTAGAAATGAAAGACAACAATAGCATATAAGTTAAGAAAGGGGG
TAAAAAGAATCAAGAGCATTCTAAGGTCCTTATATTACCTGGAAGGAGAG
TAAAGATAATGACTATCTTCAGGCTGATAAATTAACAATGTATGCTGCCA
TTTT
>Sequence 861
CCCTTTGCGGCCCGGGCAGGTACCAGCACAGCAATTGCTGTATGTTT
GTTTTTAATTATCGGTTTTCACTTGAGGGGGCCAGTTCTCTATATTTCAA
TCTATTTTCTATATCAGAAATGAGCAGGCATTTTAAAAAATGGCTTTCAT
TGATGGAGAGGTAAAAGTGAATGGCTTTGTTGTATTTATATTATAAAAG
GCCATTTCCCAAATCTAGAATTTATTAATAAAAATCAAGTTTGCAATTGAG
GGGAGGAGTATGATTGCTCAAGCTTACTTTTTTTATAGGTGGGGTTTTT
ATATTTTCAATGTGATTACTCACC
>Sequence 862
GGTACACATTCCATGCTGGGTCATACCTGAGTGCCAGTGGAATATAATTT
GGAAGGAATAACGTTGTTGAAAAACATCCTCTACAGACAATATGAACAAT
GCCTTAGTCATCTATTGATTATGACAATATACTCTGAACAAAATGTTTT
CGGTTCTGGTTTCTGTGGT
>Sequence 863
ACTACACCTACCACCTGGGTGTCTCTCAGACGTTACCAAGAGACAGAGT
AAACCCATGCTTTCTCCTATCCAAACAGTCTCTCCTGTTCCCTGCTTTG
TCCAAACCCAGTTGCAGGAATTTATGTCTTAAAGTAAACCATCGTATGAT
AATTTCCCCTGAAAAATGTGCCTATTAAAAAATAAGGATATGATGGGAG
GCAGACATAAACATTCTGGTCAATTTATTGGTGTATTATTTATTTTCACT
TAATAAACTGCCCTTTCGCTATGCTTCACTTTCCACGTGTTTAGGCAGT
>Sequence 864
ACATGCTCTAAAATGTAAGGATTCATTTATGAGAGAGTGAACATACTGCT
TGTAGCTAAAACATTACAGGAGACCTTAAAAAGGGGTATAATTGGTCCCT
ATGTGAAATGAACCTGACATATTTTATAAATTATTGTGCATGACTATC

Table 2

TTTTGTTGATAGCACTAGGAAGACTTCTAACGTTTAAATACTTTATTTGC
CCTCAATTACTATTTAAAAGTCCTATAATTTTAAGTAATNTACAGCTGA
CAAAGATAAAATATTTTTTCTTTTAGTTTTCTAATGTCTTGGAGGTAAA
GTGGAAATGGCCTGTTTTGACACATAATTTCTAGAAGTTGGAGTTAATTT
GATCAGTTACATTTGGGTTTTTTTTAGATTACAGTTCTTGGGGTAGATAA
CACTTCTTGCTGCTTTAAGTACCTCGGACGCGACACGCATAAGGGCGA
ATATCCACACACATGGAGGACGGTACATA

>Sequence 865

GGTACATGTTACTGGGTATTAAATGCGTTCATAGTAGGGTATTAAATCAG
CAAGGTCCCCATCCCAGAAAAATGTGCAGTTTGTTCATGGGAAAGATGC
AGAGACAGTTTCAGTTAATACTAAGTGCTAAGATTGGGATGTGCACAA
GAAGCTGGAGGTAAATAATCTGGAAAACTGAACGTGAAGTCACCACTAGG
CAAGCTGCCTGTAATTGAGCTTGCTTGATATGACCAATCAACCTTTGCT
TGTTGAAGGATTAGTTATCTAGTTTCCTCTTTTCTTTTTTGGAAATTTGG
TCTTTTAAGGCTTGATAATCTTTCTAGTTTAGAGCATGTGAACAGAACA
GAAGGAAAAATCAGGACTCAGTTTACTTAATTTAAGCAAGCATTGGTTGCT
GCAGATTAGGGGAGGTTAAAGTTGCTGGGCTCCACTCTTTATTAGCATG
GATGCTTAAAGAACTTCAGGGTTTGGAGGTTAGATTGAACAGCCTGTTT
TGGACCTGCCCGGGCGGGCGGTTCAAAGGGGCAAATACAGCACCCTGGG
CGGCGATACTAATGGATCCAGGCTTGGTACCAGA

>Sequence 866

CATTTCCCCTTATATGTTTCGTTTTTTAGGTACTATGGTATGCCCTAACTA
AAAAATAGATATAGGATAGTGATACTTTGATGAGGACTATGAAAAGGGAC
AGTACGGCTTAGTGGAAGTTTTTAAGTTTTCTACTGTTATTGAATAAA
ATTACATATAGTGTGATTCTTATTACTTGAAATTAGGAGGAGAAAGAATT
TTTTGAGGTAAATTTGAAAAGACATAAAATAGACTACCCTGACAAAAATC
TTCACAGATTAAAAATACTAATATTTGCATTGTATGTATATTACAAACA
GTATTTCTTGCTTTTTGCTTTTTGTATTGTGTTAAGTGTTCCTTGCTAT
ATTAAATATAACTCTTTATGCAGCCTAGACTTATTTGTATGTATTCCC
TGACCTTGATGTTCATAGATAAGAAAGCCATACTCTAAGAAAACTAAGTAT
CTGCTCGGGTGGATTGTTTGAAGGGCGAAATTCAGCACATTGGCGGAC
AGTTCATAGTTGGATCCGAAGTATGGAACCAAATCTTGGCGAAATCATGG
ATAATATCATGAATTTTCGTGTAAAAATTGTAATATCGATTATCAATATT
CACAAGAAATAATGAGTCAGGGAATCATATAAGTGATAATGTCTGGCTAT
GCTTTAAGAAAGTAGGCCAACTCATATATTAATATGGGACAGATGAATAT
AAGACCTATTTTCTAATATCATGATATATATTACTTTAGTACAATTATTT
ATATATGTAATTAGACAACCTCTTCGTGTGTGAGAGAGTTTGTTCCTCGTA
TATCTGGAGTACTATTCACAATTTACGATATTCATATGCA

>Sequence 867

CCGCGGGCATGCAGCCAGGCTAGACCGGCTCAGCCCCACTTCAAGACAAA
ATCTCAGCACCCATTACTACCATAACATATTTATGCAGTGAGCTGCATCA
TGACCAGCTATCATCTTACCTCATAGTTTTTTCTCTGGTAGAGATAATT
AACTTATTATGCTTGATCAGTTAACTCTTGCTTAGAAAATTTAAAAAATAT
TTTTAAGTGACAAATCTTTGTAGAAAATTTTGAATAAGAAATATTTGA
AGTAGAAAGTTAAAAATCACCCACAATCTGCTTTTGTAAACATTTGAATA
TGTTGTCTTCCATGATATATAACAAAATTTGTCTGGGTATTGCATATGTC
GTCCTTTCCCTTTTAATATTGCATTTTGAGCATTTAACCAGAACACTAAA
TATTCTCCCTAGAACATATGGATTTTGAATAATTTAACTAATTATAAAAA
TAACTTCCCTAATGGTTCTTTGGGCTCTTTAAAGGTTTGTCTGGTATATGT
TCAGGGTATGAACACTTAAGGCTCTTGACCACATACTGCCATACTGCCAT
ACTGGCATACTGCTTTTAAAAAATAATTAAGCTGAGTGCGATGGCTCACG
CCTGTAATCCCAGCACTCTGGGAGGCCAAGTCAGGTGGGTCAATTTGAGGC
CGGAGTTTGAGAACAGCCTGGTGGACCTGGGTGAAACCTTTTCGTTACT
AGAATAACAAAAGGTTAGCCAGGTGTAGCAGCATGTACCTTGGGCGGGGA
CCACTCTAAGGGG

>Sequence 868

Table 2

CCTTTCAGCGGTCTTTTGGCAGGTACTTCCTTCTTTTTTGGTAATTTTGC
GGGATGTTGTATACTCTCTACCATGGGGATGAAGACACAAGAATTATGAT
AGTTCATTGAAAAAGGTTGAGAAATTCAGAACTTGTCAGTTTCCACCAATA
ATGGCAAAGATACAATATGACAAAGTTCAGTTGCTTAAATGAATCTAGGA
ATGAAGAATCTAGAAATTATAATGGAGAGGTGATTAGGAGTTTAAATGG
TTTATTGATTGGAGATCCTTTATCTGGATTATATAGGGAACACTTTGCTT
TAGGAGAACCACCTATGATCTAGGAAAACGGCTTTTAAATGTACCTCGGA
CGAGACCACGCTATAGG

>Sequence 869

TGTACATTAATAAGCATACTAAAGAAAAAAGGAATGTTTTCTTAGCAA
TTTAAGAACTTGCTTAAAAAGAAAAAAGATCAACCACTCCCTCTAGTGA
CAAAAATTAGCCACAAGATGAAATTCAGTTAAAAATTCAAACACTGTGGA
GATGGAAAGCCTTGATTTTAGATGAAAGGATTTATGGCTGGAATTAATA
GAAATTAAGGCAGAAAAGTGGGTGAATGGAAAACATTTACTTTTTGTT
TTTAAGTGTTAATAGCCACTTTTGTCCAGTCTGTATCTCCTTTCATTAG
TCTTTATATATATATACACACACACACACGATGTTATATATACAT
ATAATGGTTTATGTATTATATATGGTATATATACACTTATATGTTATATA
TATGGGTTTTTTTCAGGAGCATTATATCATGGGAATGAGTTCAAAAGTAC
CCGGCCCCGGCGTCGTTTCGAAAAGGCCAATTTCCACACACTGGCGGGCGG
TACTAGGTGATCCGACCTCGGACCCAACCTGGGGGAATCATGGGCATAAC
TTGTTTCTGGGGGAAATGGTTTCCGTTTACAATTTCCACACACTATAC
AACCCGGAAGCCTTAAAGTGGTAAAGAGCCGGGGGGGGGCCCAAAATG
AAGGGGAGCCCTTAAACTCTCCCAATTTTAAAAATTTTGGCCGTTTTTC
CCGGCCTCTTAAAAATTGTGGGCCCCCGTTTTTTTTTTTTTCTCAAC
AAAGAGTTG

>Sequence 870

CCCTTGGCCGCCCCGGGCAGGTACTAATATCTTCAACAGAATGCAATAAA
ATACGAGCTACATAAATCCAACTTGGTTCAAAGGTAGCTATGTTTTTTT
AAAAAAGTTATTATAACAGACAAAGCANATGCAACTTATCCTTCCAAAC
CCTGATAAATTGGTAATACCAATAAAGTGTATCTAATAAATATACAAATC
AAGAGAATACCTTGCTAGCTAAATTAATAAAAAAAAAAAAAAAAAACTATCCA
TACTTAACAACCAAGTGCAACTNTGTAACCAAGTGTTCTTAGCTCCCG
CGTACC

>Sequence 871

CCCTTAGCGTGGTTCGCGGCCCTATGTACAAGGGCTTCTTTGGTGATAGTTT
CTACTCTCTTTAAATACTGTTCTGTTATTTTTGAAATCTGATCAAGAATT
GACACAATAAATCTCTTTGATATTTATACCTTATGCCTACTTTTAACCTTT
TAGGAAAACCTTATGAATTGGAATATTCTAAAATCCTGAAATAATTTGGA
ATATTCTAAAATCTGAAGAGAATATGAACGGATTGTTGGAATGGAACCT
TTACCCGATTCCCTCAGACTAGAGTGTTTCATACGACATTTTGCCAAGAAG
TTCCTATAGAGGCAATATCACTTTTAGGATGGATGGGTCTAAAAGGATCA
TATTTAGTTTCTGGTTATTCATGGTTGCACTCACTTTAGAGGATGTGTTT
CTATTAGGTTGCTGCTACTATNTGTCTCTCCTAAATAACAGTATGGAATT
ATAGAAAAGAAAGGTTGGGAGAATAGTCGTGTGATTCTTCTGGTCAACATA
AAGCCTTGTTTCATCCAGCCACTGACTATTTGNTCTTTCTTTTGCTTGA
AGCCAAGATGACTTTTTCACTTCTCGATGTTTTATGGTCTATACCTCT
CTCTTGCTCCATATTATTTGCAGTGGTGCGCAGATTATTTGATTCCA
TTAAAAATGAACCTGGGTTTTTAACCATTACCCTGGAAAAATCAAGAAGT
TTGGGCCCTTTGTCCCCCGGGGGCCCCGGGGGCTCCCCGTTTTTTTTTT
GAAAAAAGGGGGGGGGCGCCCAAAAAAAT

>Sequence 872

ACAGTTCGTGTTTTTCAATTGATACATACTACTTATGTAAGAAAAATGA
GTAATAATAGAGGGCCACACAGGCAACAGCCATTAGGTTATGCACAGAGA
AGGAAAAACTTCAGAGGTTGTGCTGCCATCTTCTGGAACAAACAAGAATC
TACAGGAACAGAAACATGATGGAAGAACAAGGGTTAGTTACTGCAACGAA
AAAACATGGCAGGAAAAAAAACCATTTTGAAGCCAAGCTTTTGATTTAAC

Table 2

CATGAATGAAAACAAATGGGAAAAACAACAACAAAAACAAAAACAAA
CAAAAAACAAGAATGACCAAAATACAGAAATTATTAATGTTTTACACATCT
TGTACC

>Sequence 873

CCCTTAGCGTGGTCGCGTTCGAGGTACTTGTTAAAAATTCAGATTCCTGGA
CCCACCCTAGACCTACTGGATCCAAATCTCTGCAGACATGGCCTGGACAT
CTTCATTATAACAAGCTTCCACATAGATTATTTTGTGAGTGGCCATGTCT
TGCTTTGCTTCTGTGGAACTACTCTCCATCTTCTGGAGTGGAATGTCCC
CCATTGCTATCCACATGGTCCTCGCCTCCCTGATACTGTAGTCTCAGATG
GCACCTCCTGAACTGGGCCGAGCTCAATCACTTTCCCAGACCCTGCCAC
CTCGCTGGAGCTCAGTGGGCCCATGGTGGGCAAAGGAACCCAGGTTGGGC
CACAAAACCCTATGCATTTATAAGTAGATGGGGGCTGAATTACAACACAC
AAGCACTTAAGGGACTTTCTGAATATCTGGACTCATAGGATGGCGAGCAC
AGCAAGAGTGCAGATTGAACCTACTCTTAGTAACAGATTGTGACTCGGAG
AGACCCTGGGTGCGGATGGTTCTGAGTAATGGCAATACTCTTATTTGATA
TAAAGAGGCACCTGGAACTCCTTACAAAACATGTCTCTTTGTAAGACAG
GTGATATGAGACTAATTCTATTACTGGGCCTCTCCAAACATTTCAAAAAG
AAACAAGGGTCAAACCTTGGGATACCTCCCTTTTCATATGTGACCGGTAATA
GGGCTTATAAGGAGGGCATGCCATTTACTGAGTATTCGACGTCTTAACGG
TATACAAATTACATCTACGCCT

>Sequence 874

CCCTTTGCGTGGTCGCTTTTCGAGGTACTGAGGATGACTAGATGACAAAT
AATAAGAAAAAATGGCATTGACTTTGTATAGAACTTAATAATCAGATTTT
TAAAGAGGTTAGTCTATTCTTATTTGAGAGATATGGAACTATCTAGG
CCTAAAGACTGTAAATCTGCCTGGAATCAGATAGTTGGCAGCAAAATCAG
AAATAGAAAAGCAGTTACTCAACAACCAACAGTTTAATTTAAGAAACATTT
GACAAGCATCTCCTGTGGATAAGACCCTATGCAAGATGTCATGAATATAA
ATATGCACAGTAGT

>Sequence 875

CCCTTAGCGTGGTCGCGTCCGAGGTACTTTAAAAATAACAGAGTGTGATT
TAAGAATACTCAGACTAGAGCCTTCAGTGAGTTGTCTGAGGGAAAGGAGT
GAAGTCAGGACTTAGATAGAAAAGATTACAAAGAAAGTCAAAGTAAGCAGA
GGAAAAAGATACCAAAATGACAGCTTCAGAATAAGCAGTAAGGGAATAAA
GAAAACAAAGTTGTGTGTGTGTGCATGTATTACATGATAAATCCATGGAA
AAAGAACTCGCAATTTACTAAAGGAATAATTCATGGTCAATACCAATTTCT
GTGTCCAAACTAAGTTGATTAGTATCAGAAAGGAAAGTCAATGTTTAAAC
AGTCCTTCCCACATCTGCTACTTCCATAATGCCTATGCAACTGTCATAAA
TTAAGAGTAGAGAAGGGCACAGGGCCCACTGTCAAAACAAACAGGCAATT
CTGGGTTCCAAGTTTCATATAATTTTCTTGAGCCTGAAAGTCGTGAAAAC
TGCTTGTCTAACATGGACCACTCTAGCACTGTAATGGGATAACCCATTA
ACCTGGATTCTGGCCACAAGCCTTGCCCTTTGTGGCAAGGTACCTGCCCGG
GCGGGCGCTTAAAGGGGAATATCAT

>Sequence 876

CCCTTAGCGTGGTCGCTGTGACGTACTTGCTAAAATTCAGATTCCTGGA
CCCACCCTAGACCTACTGGATCCAAATCTCTGCAGACATGGCCTGGACAT
CTTCATTATAACAAGCTTCCACATAGATTATTTTGTGAGTGGCCATGTCT
TGCTTTGCTTCTGTGGAACTACTCTCCATCTTCTGGAGTGGAATGTCCC
CCATTGCTATCCACATGGTCCTCGCCTCCCTGATACTGTAGTCTCAGATG
GCACTCCTGAACTGGGCCGAGCTCAATCACTTTCCCAGACCCTGCCCAC
CTCGCTGGAGCTCAGCGGTCCCATGGTGGGCAAAGGAGCCAAGTTTGGGC
AACAAATCCCTATGCATTTAGAAGTAGATGGGGCTGCATTACAACACACA
AGCACTCAAGGACTCTCTGTAATATCTGGACTCATAGGAAGGTGATCACA
GCAAGAGGGCAGATGAAGCAGACTTAGAGAAACAGATGAGACACAGAGAG
ACCCTGGTTCTGGTTTGTCTGAAAACATGGCCAATCTCCTATTTAGATTT
AGAGAGGTACCTGAAACATTTCTACAAAAAAATTTCTTTTTGATATGA
CGCTTAATTTGAGGCCTAATTTCTAATACTGTGCAATCTCAAAGCTATTC

Table 2

AAGGAAAATAAAAGGCGCAAAAATGTCTAATACTGCCATTGGATTGGTGC
AAGGATTAAGGGCTTTCAGGGGAGGAAGGGCCTTTACCTGGAAAAGTTTG
GCCTGGAAGGCTGTGACAATTACTTGTCTCCCTTCT

>Sequence 877

GGTACTTTTTTTTTTAATTTTTTTTTTTTTTAAATAGAGATGGGGTCT
TACTATGTTTCCCAGGCTGGTCTCGAACTCCTGAGCTCAAGTGATCCTCT
CACCTTAACCTCCTGAGTAGCTGGGACTACAGGTGCAGACCACTGTGCCC
TTACTTCTATTCTTACTTGACAAAGGAGAGGAAAAAAGGAAGTTTAG
AGAAATTAAGTAGTAAGTGTCCAAGTTTACCCACAACCACTAAGTGGTA
AAGCTGGGGTTTGAAGTTCAGCAATGTGCTTAAATCTCAGTAAGTAAAA
TACACTATGGAGGACCTTAGGTTTTCTTAAATTCAGAAGGTCTTTTCC
ATGT

>Sequence 878

CCCTTTGAGCGGCCCGCCGGGCGAGGTACATGTTTGTAAAATTCCTTAAAA
TATTTATGCTCAAACCAACATTTCCATTTTATCTATCTTAAATATATCTT
CCTCTTCTTTACGCCTAATTTCTTAAACTCCCAGAGTTTTTTTCTGTAAAG
ATCTAGTCATCTGTAGCACTTCTCACAAATTAAGCTCTTATGCCCAA
ACAGTAACGAAAGAGGTCTCTTAGTTGGACAATAAGCAGTGAAAGATATT
TCTTATGGGACAAGAAATTAACATTATTAGTCAAATGTTGATGCCGGTAG
GCTGAGAAATGATTCTCACTTAAAAGCCCCCTGGGTTTTAAACCTCTCTTA
GAAAAACATTAGTTAGATGAAAAANANAAAAAANANANGGTACC

>Sequence 879

GGTACAAGGAGCTAGATCATCAAGGAAGGTCAGGGCAGGGTTCACAGGAT
GAGGGCACTTTGCCATTCTTTGTGATATTGGTCAACAAATGACACAGGT
TATTTACAATCTTGACCTTTTGGAAAAGATACAGCAGGTAATAGCCTACA
GGAAAGAGGAGGTAGAAAACAAGTGCCACAGTAGAAACACTTTGATAGCT
AAGATGCTGTCTATCCTTTGTGGNTATTCTGTGCAGTTGTCTGCCTGGGT
TCTTGGAAAAGTCCAATCTAAAGGTGCTTGATTGCGCCCAAGGATGTCTG
CATTCATTCACTGGGAAGTACAAGCCCTCTTGCTTCAATCAACTCCTCA
ATCAGTTTTCCAACTCTTATTCTTACTAGACTGCGAAAAAATATTCTTC
TTTTTACCGCAATGGAAAAGGGCCTTGGGGGATCAACCTGGGGATGTGT
GAATTATTAACCTATATTTTTATATAAGTGGACCTGCCCGGGCCGGCCT
TTAAAGGGCCA

>Sequence 880

GGTACATACAATAGAGTATTATTCAGCCTTAAAAAGGATGAAAAATCCT
GACATGCTAAAAATATAAATGAATGTTGAGAACATTATGCTAAGTGAAATG
AGCCCATCTAAAAAGGCAAACTACTGTATGATTCACTTAAGTGTATATC
CAGAGTAAACAAATTCATAAAAAACAGAAAGTAGAATAGAGGTTTCCAGGG
ACTGGGAGTTACTTGATATAGAGTTTCAATTTTGTAAAGATAAAAAAGTTC
TGGATATTGGTTGCACAGCAATATGAATATACTTAACACTACTGAACTGC
ACACTTAAAGATGGTTAAGATGGTAAATTTTGTAGGTGTTTCTTACCAC
ATTTTACAAAAAATTTTAATTAAAGGAATTACAAAATGTACAAAATACT
ATTCATCATTTGTGTTTCCAGTTTATATTCAACACAGCAGTATTTTCAAGTA
TAGTAATTAACCTTACTATCATTTTGAAGATGTCTATAGCTTAGTAAATA
TCCAACCTTATTATCATATTTTGTGATTATCTAAGAGAAACCAAGCCCC
CAATGGAATGGAGTTCTCACTACTTCACCTGCCAGCCTTCAAAAAAAGCC
TGTATTTCACTACCTATTAAATGGGTACCTGCCCGGGCCCGTTCAA
AGGG

>Sequence 881

ACCACTGCACTCCACCTGGGTGACAGATCAAGACCCTGCCTAAAGAAAA
AATTTAAAAAATAAAAAATTTAAGAATATTTCTATGCCCTTTACCAGGC
CAGCTTAATCAGACTTCTCTAGGCCTAGGACAGGCTTAAGATCAGTTAAT
TAAAAACACTTCTGATGTTTCTTGAGCATTGAAAAGTTTTATTCTTTCTG
CTTGTTGTTTCAATCTTTTGTGTTTGTCTTTTACTAAGGCTAGAAACAC
GTATTTGGTTTGGTTATCTGAAGTTAATTGCATTCAATTGTGTTTATAGT
ATTTATCCCTGTAGTGTTGGAATTACAGTCACTTACATTATTTTAG

Table 2

TTTTTGCCTTATCTCCTGAAAGTGTGGGGGACTTTGAATGGGTGTGTAA
TAAAAAAGCTTCGTTCTAGAAAGTAATAGTTTCTCCATGTCTTAAATATT
TTAAATGACACTGACATGTTTTTAAAAATCGGGATTGTTGGCTGGGCACC
GTGGCCCACGCCTGTAATCCTAGCACTTTGGGAGGTGGAGGCGGGCCGAA
CACAAGGTCAAGAGAACGAGAACCATCTTGCCACACGGGTGAAACCTAT
CTTTGCTTGTGAAGGAAGAAGATGATACATGATGAAGGGTCCCTTGCCG
GGACCACGCTAAGGGGGGATTCCGGACCATGGCCGGCTTCAAGGGGAA
CCAGCCTCGG

>Sequence 882

ACTTTTCTTGAATATTTCCAGGGCACAAGATATTCTTATACAGAAACCT
CAGAAATGGAATAAGACATAAGCAGTGTTCACAGAACCATCCAT
CAGTCTTTTTTAGGATGTAGCAGTCTTCCATGTATCACTTAACCAATCAT
TATTCTTACCCCATCTTTTTGGGCAGGGGTGGTAGAATTTAAAAATTAC
CATTACTAAGACAGGGTGATAGTAAGCATAGAAATTTGGGATGTCTTTTT
TTTCTTGCCCTAAACCTTCAGAGTCTGCCAGGTGATTCAAATGTTAAG
ATCCCATAACTCGCCTGTGTGCTCAAGCGAACACTAACACTTTAAAAAG
TGGGAATGAAAAATCTGAACTGTTGAATTAGACACAGTATTTGGGCCCA
TCTTCAATTTTCAGAAAGAACAAGTGGAGATATCAAGGCCATTGCGGCCTT
CTGTAGTCATACTGAAGAATGATGTACCTTCGGGCGGGGAACA

>Sequence 883

CCCTTAGCGGCCCGCCCGGGCAGGTACTCAAAAATTTAAATAGCCATCTAA
AAACATCTCAGGTAAAAATCTGTCCCCTGCATTTGAAACCAAAATTATT
TTTTCTCACTAAAACACATTTTATTTAATAGTGAGGTGAAATTACATTAG
CCCTCTTCACATTTATTTGATTCAAACCTTTTTTAAAAAACTTAGATTCT
TTTAAAAAATAAATTAAGAAAAATGACATCATTCATCAGATAGCCAGC
TACATGTGTAGTTTGATCATTACGTTTAACCGTTTTATCACTGTTGATAT
GAACATTGAGTACC

>Sequence 884

GGTACTTTGATACATGTAAAGTGCAAGGCACCTTGCTAGAGAGCATAGGA
GCTATACTAAGATATAGAGTCCTGCCACAAATACACACAAAATAACATGA
ATACAAAGTGTCTTAAAGTCATGCCAAATAAACAGAGCATATAACTGG
GCAGAGGGATGGAGAGTCACATGCTGGAGGAGGTGAGCGTTGACATGGTC
TTATGGGATATGAACTTGAGATGTTGAAGTAGAACTGAGACATTTCTGGA
AAACTAGATGTATGAACAGAAGCAGGAGGAATAGGAGAAGGTTTGAAAAA
CAGCAAGCAGCTCAGTTTCTTGGGTGGTCCAGGAGAAGAAGCTCAAACAA
CAGTCAGTGATAACACTAAAAAAATCAAAAATTTTAAAGTCTGGAATCA
CAGCATAAAGAACCCTGATGCAGGATTTTTATCTCGCAGCCCTGTCTCCC
TCAGGAGACAGAGATCCAGAATCACTTTCCAGAATGGTTTAGGGTCACCT
TCCAGATTCTTTGTTACCAACCCTTGACCACACCATTTTAAGATTTCOA
TGGACCTGACCGGGCGGGCGATCGAAAGGCGA

>Sequence 885

GGTACAATAAACAAGACAGTGCCTGCTTGTGACCAGGGGCTGGGCCTCTT
CATAGCTCTTTCCCTGCCTTTTGTCTTCAGAGTTGATCTGCTTCTTACA
CATTCACTTTTTCAGAGTTTGCTATCTTAGAAGCAAGGATCATTTTTAAT
TGGTTTGTTTACTTCAAAGTCCCACTCATCAGAGGCAGGGTTTCGCTTAT
ATTTGGCTCAACTACTTTCTTCTGCTTGGTTTAGTAACACTAATGTTTAC
TAACATTAATAATGAAACAGTTTTCAGCTAGCATCTATTGACAAATATA
ATTATTTATTTCAAACCTGTATATTCCAAATTTAAACATATTCAATGCTTA
TTGAACATTCTAACATAATAGCTTATGATAAAGGAAAAATATAACATCTGG
TTTTGGATCTGAAGCACAACCACTGCTAGATATTTTGGGAAGGCTTTTTA
TTCCAATTCAAGGTGAATCTCCGAGGGTGTGGTGGCCTTCCCATTAACAG
CAAAAACCTGTCCAATTTGGGATTGGTAGAAATAAACCGGATGACCATT
CCTTCTTTTTATCCCAAAATTTGATTTATGCCTACCTAATGGCTTTCTT
GGATATGATGGTTGGCAATAGCCTGCTTCTAATCTATTTGGATAGAAAA
GGGAACTTTAATATTCAGATTAGGGGGCTTGATTTTGACTTCCTTTAACA
CCGAATGCGAT

Table 2

>Sequence 886

GGTACATATGGCTCGGCCAAAGGGGGACTGGATTAATAAAATCTGGTAATA
TAGTAAGGACAAAATAAATGTAAAAAAGATAGAAGTAAATGTGAGAACAT
CAACATGAACGCGTGCTCCTTTGAGTAGAAAAGTAATTTTTCTGCTTTGTC
ACTCAAATAGCTGGCAGACCTGACATCACCTGCCTCTGCTTCCATGCTC
TAAAACTTTCTGGGCCTCAGATTTGGATGCTAATATGATTTTCCACTTA
GTGGATAAGAGCTCCCTGGAGAAGGGCTCATTCTTGGATGGACAACAGAA
TTAGAGCCTGAGTCTAGAGCTAATAAAACAAAGACAAAGAAGGGATCACG
CAGAAAGCTTGGTAAAGACTGTCCTGGCCAATCTGATTACAGTCAGTTGG
TACCCGCCCTGGCGGCCGCTCGAAGGGG

>Sequence 887

ACCGATGAAAGTTTAAATCTAATCAACAGTATTATGCACTGGTTGAAGAA
AACCAGGATTAAGACGGAGGATAGTCAGCATGGAATCTAAGAAAGGAAAA
GTCCGGTAAGTATATGTGTTCAATAGATTCTAAGCTGTTAAGGGAGAAAAG
ACCCTGAGTCTAATGAATATAAACTTTAAATTTAAAGAAAAACATNGTCT
GTTATAGAAAAGTGGTCTTTGAGGTTTGTAAAGATGAACATTTTCATCT
TTTGTAGTTGAATGCTCATGGGGATTAGCTACCTCCATTTGTTTAAATGG
AAACCTTTTTTAACCAACCCATTTAGTTGCTTGACTCATATGAAGAAA
AGGTGCCCTTTGGTTGGGAAAAGTGGAAAATTCCTAATTAAGGAAAATGAT
TATCCCTTTATGATAAATAAATATTTTATGTTTCATGCTTCATCTCTTAC
AGTTATAAAGAGTAATTTTACCTGTATTTATAATTTATTCCTAATGCGTA
TTCTTAGATTTTTATAATCATTTTATTTCTAGAAGTTATTTATGTAATGA
TCTAGATAGTACTATTTTCTGACCTGATATTCAATTCGTATGAATTTCT
TTATAGGTCAATGTTAATTAGTTGAATCATTGCTTCTTCTTTTCTATT
TATATAAATCGGTGCTATTGTTCTACTTATANAGTTGTTGAACGCATCCC
TTTTATTTGTTGTTGGTATCTCTATGTAACATAATCTTTTATATTACGATT
TAACGTATAATAATATTTTACCCTGATTATCCATTGTCATGTTTCGTACT
TTCAGTATTTCTTTATCATATTATTGAATATTTG

>Sequence 888

CCCTTTAGCGTGTGCGGGCCGAGGTACCATTAAACCGTCTTTTAAAAAATT
ATTATTAGTTTCAGTGCTGTTTCTTGAGGGAGCACCGGTGGTGCAGGTCN
ATGTTGTCTTCTTAATTACAAGTCTGCAGTTGCCAGCTCTAGTTTCTTAA
AAGCGGACATAGTATCTATGACTTCTGACTACCACATTCATGCTGAGATT
TCCTGCTCCACTTTATATACTTTGACATAAAATATGTTTTACCGTAGCAA
AATGTTTTTAAATCACTTTTTCTTTTATTAGATAACTTTTAAATTTTCTGC
CTCGAGTTTATTTTATGTTTCATCTTCTTTTATAAAAAATTGTCAATTCTC
CTTTCTAACTTTTTTACTTTTAAATTAATATATATACGATTCTTCTGCT
TAATCGCTGCTTCTCTTATCATTCTAATATTAACCTTTTTTATCTAAAT
CCTACGTACTTACTCTTCTTCTCATCTTTTTTATTTATTAACCTAATACAA
TCGATATAATTTTCGTCGTTTATGGCTTTTATTTATCTCTTTTTATCAATT
AATATAATTTTCATATTTCTTTATCTTCTCATCTTTTCTCGGCTTATTT
CTCTTTATCTATAATAATGTATTAATTTGTATAAATCTTTCTGTTATGT
ATCACTTATCTTTCTTCTCATCTTCTCATGTTAAAAATATTCATTTAGAT
TATATTTAACTTTTCTTCAAATATGGCACTTACTCCTTCTCTTTACTCT
TTTACTAATACCATTTAAAAAATATAATCATAGTTTATCTAAGT
CCTGCCTATTTATCTTTTACTATATTAATGCTGTAAATTTATACGTATGT
TGATT

>Sequence 889

GGTACTAAACAGGCCAGATATATTCTCTCATTAACTTATTGCCTAGCAGA
GAAGACCAACATTTTTAAAGTTTATACATATAGTTAATTTCTATTATGA
TTATATGATACAAATGGAAAGTGCTATGAAAATGTGGAACAAAAGAGAAT
AATCTGTCTGAACAGTCAAAGAAGACTTCTGGGAGATGACATCTGAGCTA
AAGGTTGAACAAGGAATTGGAACACAGCTGGCATGTGCAAAAGACTTGAA
GACTGAAGGAGTTAGCCTTTAAAAAATGAAGAAAGTTCTATTTGGCCAG
AGCAGAGTTTCAAATAGTGCCTCACAGGCCACGTTAAAGACCTGAGGCCT
TTATTCTAGGAGAATAGGGAGCTGCTCAAGGAATTTAAGCTTGAGAGTGA

Table 2

CAAGATCAGATTTGCAATGCCTTTCAAGAGGTTAGTTACAAGGAGTTGGGT
CTCTGACCCCTTTGCAATTATACCCATTCTAACTAAGAATGGGGAAACTTT
TATATCCTGTCTTTAATGAGTGAGAAAAGAAAGAGGAAAATAAATAAGTT
CCTTGCTGGGGGTCGTTGAAAGGG

>Sequence 890

ACTTGCTTGCAAAATTATATTACAAGAAGAAGCACACTTGTTATAGAAG
TGCTGAATTGTATGGAACCTAAATCTGTCAAGTTACCCTGTCTTTCAGGG
TCCGTCTCCCCACCTCCAGACCTCATTATATTATCCCGAAAAGAACACG
ATCTCTTTAAGGCTAGGCAAGTATTGCGCTGATGAGCCAGGGACTGCCCA
CCAATTGGCAGGCCCATTTGGGTGATAAATGTCCAAGGACCTCTAGGCTGA
CGACACATTTTTTCATCATTAAATCCAGTCTATTGTAACCAGGGCCACTCAC
ATTGATTCGGACTAGGGGGCATCATCTGCTGTTAAGAGGGTGATGACTCG
CTAAAAATGAGGGCCTGAAACTAATCAAATATATTTAGAGCCTTCCCTGG
CAACTTGCTGGGAGAGCAGCAGTAGACAGCTAATAGGGGAGCCCCAGACA
GGTAGCGCGGAGCTCACCATGCTTTGGATGGGAATGTGAGAAATCCATTT
TGGAAGCCTGGTGTGGAATTCAGCTATTATACATTGTAGTACCTTCGCC
GCGACCACGCTTAGGGGC

>Sequence 891

ACCACTTCATGGCTAAGCATGTGCGGGATGGAACCGGTCTTCCTGGGCTT
ACATCTTTGCTTTGCCTCTTCTTTCCCTGTGATGAGTCTTGGGGTAGGCC
TCAAAGGCTGAATCTTCAATATAAATACAACAGTGAATGAACAACAAATG
GTTATTTAAAGATCTATCTTGGATGGCTATTTAATTTCACTAAACCCCA
GGTTGCTCACCTGTTGACTGGAACAAACAATAGTCCCTTCTTCATGCGGG
CATGGTGAGGGTTTTAACCCCGCATTGTCCACAAAGACCGCTTAAATTAT
AGTAGATGCTCAGCAAACTGAGCTATTATTTTATCACGACTGTCAGAG
GTCAGATCAGGCTTCGGGGTTCAGACACACCTGGGTTCAAATCCCAGCAGG
GCCACTTACTGTTGGAGCCGGGGCAAGTCAGTTATTCTTCCCTGAGGGTC
AGTTTCTCATCCCTAAAAATCCAATAATACTCATCTTTCAATGAT
GCCGGGAGGTCTTAAAAATAATATAAGTTTCAGAATGATAAAACAGGCTGG
CACAAATTGGATGGCAGCCAATGTCCTTGACCCCTGTGTCTCCTGCCTT
AATTTGTGTTGAGGAATAAGGCCAAATGTGTACCTCGGCCGCGACCCCGC
T

>Sequence 892

ACTACAGAACAGGAACAATCTGCCATGTGTGTTTACAACCTTCAGAAAGCC
CTGGAATGACAGTTGCCAGGGCAGTTCTTCTGAATTTGCAGGTCAGAATT
AGTGGATGATGAATTTTTTTCACACATGGTCAACTCTGTGCCACCTGCTA
CAAGATGTTGGAACAGGTATATTTATTTAATGATGATCAATGATTC
TTCCAACATCAGGGAACATCAGGGAAATCAGCTAGTATATGCTCTTTTTG
AGGATTTTCAGCTCCAAATCCTGAAAGCATTTCATGAACTACATAAATTA
CTTTTGTTAAGCAAATCATCATAAGTAAATCCAGTCATATGAATCTGGAA
GGATTTGCTGGTGGGCACTAACACTGACCACATGTTTCAGTGTGGGCAAG
TTTACCATCCATCACGGATTTTGTGCTTGGTGAATTGTAGGGAGTGAAAG
AGAGAAGGATGTTTGGCCCAAGTTGTCTTTTTTACCTATATCTGAAATTCT
CACTTAGTCAAGAACAAAACATTTAGACATTTAATTTCTTTTGGGGTIN
TAAGTGATACATGTTTAAAAATTGTATATTTAGAAAAAATTGTTTTATTA
TATATAATTTATAAATCAGTGGAGAGACAATTTATACTGAGAAAAATTTT
AATTGGAAGTTTGTGTCTTTCTCACACACACGGACAACCCCAACTTTT
ATTGCTTCTTGAACCTTTGCAAAAAATGGTTAAACCCCTTCCACATTCATT
TGAAGGGAGGAG

>Sequence 893

ACTAGCATTAAAAAAGTCCTACAAATTATTAGAGAGAAAAATACAGGTTGC
ACGCAAGCATAAAGAATGAGAATGGCATAGACATCTTAACAGTGCCACA
GAACTAAAAAGTAGTTCTGAGTAAAAATGAACTATTTACCCAGCCAAAC
CGTTAATTAGGTATAAAGGTAGAGTTAAGACATTTATAGACATACAAGAT
ATTAAGATTACTGAGTCAATTGATATTCAACAGGGGTGCAATGGAGAAA
AAGTCTTTTCAACAAATAGTGGTGGGACAAATGGATAGCCACATGCAAAA

Table 2

GAACATATATATAAGAGCTAAAACCATAATGCTTTTAGAAGAAAATATAG
GGTTTATCTTCATGACCTTGAATTTGACAAAGGATTCTTGGACATGACAC
CAAAAGCACATGCAACAAAAGAAAAATTGGAGTGATATGATTAATATGGT
GGAACAGGAAGTCTTCAGCTTGCACTCCCGCTTCTTGACACAAACAAC
AATCTGGCAGCCATCCATGGACAAAAGTGCTCTGTGGGAGCTCTAGGAT
CCAGGTAAGAAGGTATGAAACCCTGGTAAAGCCCAAGACGGAGGAGAGGT
ACCTCGGCCGCGACACGCTAGGGGC

>Sequence 894

GGTACAGGTCACACAGCACATCAGTGGCTACATGTGAGCTCAGACCTGGG
TCTGCTGCTGTCTGTCTTCCCAATATCCATGACCTTGACTGATGCAGGTG
TCCAGGGATACGTCCATCCCCGTCCTGCTGGAGCCCAGAGCACGGAAGCC
TGGCCCTCCGAGGAGACAGAAGGGAGTGTGCGACACCATGACGAGAGCTT
GGCAGAATAAATAACTTCTTTAAACAATTTTACGGCATGAAGAAATCTGG
ACCAGTTTATTAATGGGATTTCTGCCACAAACCTTGAAGAATCACATC
ATCT

>Sequence 895

GGTACAGGTCACACAGCACATCAGTGGCTACATGTGAGCTCAGACCTGGG
TCTGCTGCTGTCTGTCTTCCCAATATCCATGACCTTGACTGATGCAGGTG
TCCAGGGATACGTCCATCCCCGTCCTGCTGGAGCCCAGAGCACGGAAGCC
TGGCCCTCCGAGGAGACAGAAGGGAGTGTGCGACACCATGACGAGAGCTT
GGCAGAATAAATAACTTCTTTAAACAATTTTACGGCATGAAGAAATCTGG
ACCAGTTTATTAATGGGATTTCTGCCACAAACCTTGAAGAATCACATC
ATCT

>Sequence 896

CCCTTAGCGTGGTCCGCGGCGAGGTACCTTGAGCTGCCTCAGCACTCTTTT
GCCATTTCGTGCTAGAAACAGCCAAAGCCAGACAACCAAATTACAGATGCT
TAAATGTTAATGCCAGACACCAAGGCTCCGTGAACCTCCCTGTTGAACAT
CTGACCCCGACTACTTGAGGACATGAAACCTAACTGTGCAGCTAATTACA
CCTTCCAAGGGCAATGACATCGGGTCTATGATTTTATTCAGGAAAGCAA
TAAGGCAATCGGGGTCAGTGTGAACATCATTTGAAGGGAAGTAACTTCTT
AGCTTTATTCCACAAATGGTCTATC

>Sequence 897

GGTACCGGTGTAGTGATAGAATGGTTTGTATCAAACCTAGATCTACATTA
CTTTACTAGAAATATAGGGCAATAATAAAATTTCCAAAGCCAAACTGAAC
GATAATATATATTTCTTTAGAAAGTCTCAGAAAACCCATTCTGAATGAC
AAAACGGAGAGATAAATTACAACCTAGGTGATATCTGAAGTTAAATTTTCT
TGGTTATCTATTTCAAAAATTCACAACCTATTCTGCACTAAAATGTTTCAC
TGGGTCAGGCACAGTGGCTCATGCCTGTAATCCCAACACGTTGGCAACCT
GAGGCAAGAGGA

>Sequence 898

CCCTTTGAGCGGGGCCCGGNGCAGGNNTACGCGGGTTGGACTCTTCT
GGTTTTTAAAACCTTCTNNGACCATTTGACTTTGAAACCCGGCCAAAGAAG
GGCTGNNGGCTTGGTGGATTGTAGCGCCAACCTTAAAAATGGTTGTCAA
AAAAAAATTACGGGTTACGTCCCTTTCCAAGGTGGAAGGCGGACTTT
TTTTTTTTTTTCCCAAAAAAGAACCTTTTTTTTTTTAAAGGGGGG
GAAAAAAGAGTATAAAGGAAAAATTTGGGGGGATTCTTCCGGGCCCCG
C

>Sequence 899

ACTGACAGATGCCTGGGTAACCATGTCCAATGTTCAAATTTACTTTCTGCT
GGACAGATAGAAGGCTCTCCTGCAGCCTTTTCGTCTTCGGGTGTCGGCTG
GTAAGAAATCCGCCACACAAGAAAGCACTGACATTTGGAGCCTCATCAGG
TTCAGAGTTGAAAGTGAAATAAAGGATAATAATCTTTGTCTTATTTCTT
TGTTTAAATGTTTCCCAACTTACGTTAGGACAATGTCAACAAAGACAGAT
GTCCCTAATAGTAATTGCAGGACATGTGTTTTCTCATTCCTATCA

>Sequence 900

CCCTTTGAGCGGCCCGCCCGGCGCAGGTACATTGGAGGGGGCCATATCCAGG

Table 2

ACCTGTGATGTGTATAGGCAGACCAGACTGGTAGGGAAGAAAAGCAGAGA
TATCAAGTGGGGGACATGTGTTTGGCCCTGGGGCTCTATTGGCCTGGAATT
TTGTGGTAGGAGGAAGGCACAAAAAGTAGACTGGGATTACAGGCGTGTGC
CACCGCGCCCGCCTAAAGTGTGTTTTATAATAAACCTCAATCTGAAAC
ATTTTAATAAAACCTTTAGATGACTAGATTTATGTTTATTTTGGATTAT
GTTTATATGAATAAAAAAAGAAAAAGACGAGG

>Sequence 901

GGTACCTATGAGATGCATTTGAAAACCTTACCTTGTTTATATGTTTCTTCT
GTTGCAATTTCTTCCATTACCTGGAATAGCTGCTTTGGACGGCAAACCAA
GCAATGCCCTTTACAGCTGTGGGATGAATGGGGAAGAAAGTCTTGGTAA
GGAAGCAATTCAGAGAACATGGGAGCATCTCATGGCAGCAGTCACAATTT
TGTGTTGCGTAATATTCAGGAACCTTGCAACCCTGATAACTTGTGCCTGC
CTGTCTGTAGGCCCTTAATGATGTTTTATTGAATTTTGGT

>Sequence 902

GGTACTTCTATACAAGGCCAAAATGAACTCTAAGTAAAAAAGAAAAATCACA
CTTCTAAACACAAAATTAACCATTTCAGTATTTAATTGCTCCTAAAAGGTG
TATTCTACTTCATTAATGTAAGAGAAAAGGTTACCTACATTACGCAGTT
TAAGAAACAGGATAAACTNTAGCATATAAACAGTCTGATTACATTTTCAC
ACTTTCAACCATCTTATTTATACTCTACATTAGATAATCTTTAAATTCCA
TCATAAGGTTTCCCATGTAACTCCATATAAAAATTTTGAATCCTGCCCA
CCCCATGTCAACTCAGTGATACN

>Sequence 903

GGTACTGGGTGACAGGAGAGAGCTCATGTGACCCGAGTCTGGGTGGTCTC
AGGCATGGTATAAAGAACTAGGCCAACCAACTGCACTAGACATAGAACT
AGCTGAATAAACTCATCCACTCCGATTTCAATTCAGGTATCTCATGAGAA
ACTAGAGGACAAAAACAATTCCAAAATTAACAAAACAAAGTTTACTCTAG
CCATCAGTGCCAATGAACATAAATGACTGCCTGAGAGTTATATTAACAAA
ATAATTAATTGACAGCAATTAAGGAATTAACAGCTATGGGAAATATAC
ACTCTATACTTAGATGCACATTT

>Sequence 904

ACTTAAATAAAATAAAATTAATAACAAATCATTTTAGAGATAAAGAGTGAA
GTTACTGAAAAAGGTGACTAGGACTCTGTTTATGAAGAAAGGTTAGTATT
TAAATCATGAAAAAAGTAAGAATACTTAATTATTCAAGTAACTTAAAT
TGTAATTGAGAATGGCTTTTATGTATCTAAAACAATCTGGGCTGCTATAA
AAATTCAGTCAACTTCTAAACTTCCAAACACAAAATAGTTATACTCAGTC
TAAGAATATCCGACCTACCGTGCAGGACCAGAGGGCTCATCTCT

>Sequence 905

ACTTAAATAAAATAAAATTAATAACAAATCATTTTAGAGATAAAGAGTGAA
GTTACTGAAAAAGGTGACTAGGACTCTGTTTATGAAGAAAGGTTAGTATT
TAAATCATGAAAAAAGTAAGAATACTTTATTATTCAAGTAACTTAAAA
TTGTAATTCAAATTTGGCTTTTATGGTATCTAAAACAATCTGGGCTGCTAT
AAAAATTCAGTCAACTTCTAAACTTCCAAACACAAAATAGTTATACTCAG
TCTAAGAATATCCGACCTACCGTGCAGGACCAGAGGGCTCATCTCTTGGC
GAGCTTATTACAGTTTTG

>Sequence 906

GGTACCTTTGCTTTAAATGCATACTAAGCTGTGAATGACTGATATCAGAG
ACTTTCTTGGAAGTAGGTTTCATAGGATGGAGGACAAATGAAACTTTATG
GGCGAAGAAAGAAGGGTCAGTTGGGTGGTGCATTGAAATAAGTGGTTCCA
AAAGCAAAC TAGGTCAACTTTTAACTGGCTAGTGAAAATGAGATTCTC
AGGATACAAAAGCAAGGAGAAGACAGGAATAAATCAGGACTCCAACAGGC
AGAACAGGATTTATTTAGGGCATGCAATGTGGAGGGCCCTAATGGGAACA
TGACAGTGTT

>Sequence 907

GGTACAAATTGCATTGTCAATTTATATTTGTTTCCCCACTAAAGCCTCCA
AACCTTGCTTGTTTTGTTTAAAGTATCCCTGGGGCTCATCACAGGGCCTGT
TGAAGTTCTTTGAAATGAATTGAAGAATGTGAATAATAGTTCTAGTTCT

Table 2

TCGGGATAATGGAAAGCTAATAAGGTTTATGCTAGAGGCTCTTACTGCTG
GGACTCTCTTCTTGTGTTTTGGTTTTAGGAAAAAAGCTAGAAAATCCAAC
TTCAGCTAGAGTAACAGTAGTAACTGACTTGAAAGTATGTCAAAACANAA
ACTGTTAAG
>Sequence 908
GGTACCTATGAGATGCATTTGAAAACTTACCTTGTTTATATGTTTCTTCT
GTTGCAATTTCTTCCATTACCTGGAATAGCTGCTTTGGACGGCAAACCAA
GCAATGCCCTTTACAGCTGTGGGATGAATGGGGAAAAGAAGTCTTGGTAA
GGAAGCAATTCAGAGAACATGGAAGCATCTCATGGCAGCAGTCACAATTT
TGTGTTGCGTAATATTTTCAGGAACCTGCAACCCTGATAACTTGTGCCTGC
CTGCTGTAGGCCTTTAATGATGTTTTATTGAATTTGGTT
>Sequence 909
ACCCTCTTCTCAATTTTGCTATGAACTTAAAACTGCTCTTAAAAAATAT
TTTTTTTAAAAAGGAGGGAGTTATTATCAGAGATCCCATAGACCTTAAA
GGATAATGAAAAGATGCTATGGATAACTTCATGCTAAAAACTNCAACAAC
TTAGAAGTATGAAATGAATGAACTTCTCCAAAAAATACAAGTTACCAAAA
ATTGACATGAATAATAACAGAAAAATCTGAATAACGCTCTAACTATTAAAG
AACGTGAATTTGTCAAAAGCTTCCCCAAAATAAAATTCCAGGACCAGATG
GT
>Sequence 910
ACTCAATGGGGTAGGGTGTCTTGGGATCTGACTGTTTCTTAGACCTTCAA
TGCTTCTGGCTTTCCTCACTGCTAGTTATAATTCAGTTTTCTCAGGTCT
AAGTCATTCATCACTCTTTTGTCTGCTTTTCAGCTTCCAAAAATTCATTG
CTATTATCTCCTCTCCTGTTTTCCCTATGGTGTGTTTGTGCTTTTTCTT
TAAAAAAATTCCTTTGTGGTGGTTTTAGGGGAGTTTTTGGGAATATATAT
TTAATGTACCTCTGGCGAGACCGCGCTTAGGCGATATCCTGCACACTG
>Sequence 911
GGTACAACCTAGCCAGCTGCACAGCAGCTCTCCAAGAAAAAGGTGTATAT
TAGACAGATTCAATTTATTCATCTTGTGATTATGAGTAGTAACCAAATTGT
CTATGTAATTTTCTTATGGTGAACCTACCCAAAGCAAGGCCTCACCTTAGG
CTACCAGCTTGACTCTTAAGTGGACAGAAAGAGCCAAAGGCTAAAAGGTT
TGTGAGAAACCTCATGAGCACTGAGTGTCTAGTTCCAGATGAAAACCGG
TTTCAGGTATGAAGCAAGAGGGAGTGCTAATTGGTAGAAGTAATTACATC
TTT
>Sequence 912
CCCTTAGCGGCCCGCCGGGCAGGTACAACAGAGCACAATGCTTAGATTG
GGTGGATTGAAATAAGATGAAAGATAAATTATGATTTTGTTCAGTGTTA
AAATAAACTAAGACACTTAAGGACCACAAAAATTTAGACCAAAGTATCT
TGTAATTTCTACCTGGTGAAAGTTTGATATAGCACACATATGACTTTTCT
ATATTATTTCTGTTTTGAGTTTAGTAGTAAGCAGATGGTTTGTATTTTCT
TTTAGTTGCAACTAAGTGATCAGTTTCATGATTTCTCTTACTATGAAACA
TTTTTTTTTTTTCTTAACAGTTATCTTA
>Sequence 913
ACCACAAAAGTTATTGCCTACATCCAGGTCAAGAAGATCTTCTACTGTATT
TTCTTCTAAGAGCTTTTACATATAGGTCAATGATCAATCTAAAAATTAAGA
GTTGTGCAATCATTAACTCTAGCTTTAGACTGGTATACTAATTGGTTTGT
ATACGAACTGGGTAAAGGCATAGGACACATGCAGGCTGTGTTCAATTCA
CAGCAGGGCTCTGTAATTAGGCAATAATTACTTACCATCATACCTAGTGA
GGCAATATGGGAGAAACAAAACAGGCCATACAGCTTCACTATTATTCCTA
CT
>Sequence 914
AAAACCTTAGCGNGGNCGGGCCGAGGGACTNGAGGACCAAGCCACAGAG
CAAGCGCTAAAAAAGNNACTAGAACCTNACCCTGNNNCACGCACC
CCAATTTTCATAAAATGTATCAGTAAAAAACAATTATCTAAAGTTTTT
TAAAGTAAAGAAAAATTTATTCACATAGGTAACCTGGTGTCAACTAGG
TAACTGATCTATTTAATTTAGGAAGTTAGTGTCTTCTTCTCAATTTT

Table 2

CAGATTTTCTGAGGGGAGGCTCAAAAGGCCCGAGAGGCTCTCTACAAGGA
GAAAGCAAGCCAGAGAATCTGA

>Sequence 915

GGTACCAGAAATGGTAAATATATGAGTAAATATAACACACTTTTTCTTT
TAAATTTTATTTAAAAGGTAACACTTTGCAGCAAAATAATTAACAATGT
ATTGTGGGTTATATAGTAGTAAGATGTTTGACATAAATTACATAAAATAAT
TGGAGCAGGGAAATAGAAGTGTGTTGTTGAAATGGTTTGATATTATATAT
GAAGTGGTATATTATTATTTCAAGGTAGCCTTGATAAGTTAAAGGTTACA
TATTGTAAACCCTACAATAATCATTACAAAATAAAGAGATATAACAGTAA
GG

>Sequence 916

GGTACTTCATAGAGGTCCAGACCCCTTGCGTCTGGCATTCTTTGGTCTA
TAATTCAGTAAACTCTGCTAAAAAGGAAACGAGACTAGCTTGCTGTGGCC
CCTTAAGCGACCCAGGGTAGCTTGTGATGGTTCAGATTATGATTTGTTCT
AGAGCTTTTCCAGAGGCAGATGTTGAGGAGTTTATCCTATTTGTCCCCTT
CCCTTTAAACAAACAAAAGTGCCGGCTGGACGCAGTGGCTCATGCTGGTA
ATCCAGCATTCTGAGAGGCTGAGGCAGGCGGATCACCTGAGGTCAGGG

>Sequence 917

ACTGCCTGGCATGCATCTTCTCGATGGTCTGTTATCTTGTGGGAATGACA
TTCGTAAAGTTGTTTTCTGTGTGCATCCACCCAAATAAAGAATGTTTCA
TCAGCAAAGTGAATTGCCGTATAGTCATCAGACTCTAGAAATAAATTATC
AACGATGACTGCAGTGGGTGAGGCTGTTTGTATTACATCACTTGAGAA
CAGAGTAAAGTGAGTTTCATATTTTCTGAGTCTTGAATTCTCATTTTAG
ACATCTGTTTCAGAAGCTTTCTAAGCCATGGAGTATTCTAAATGAGCA

>Sequence 918

GGTACTACAATTATAAAGTTACCAATAACTTTACATTAAGAAAAATCATTT
TCTTCCCCTTGAAAACAAAGTATGTCCTCACTTCCCTGCTCTTTTATTC
ATGGCAGTATGAAATGTGTCCCTGATTCCCTCCGACCTGCCACAGAATAC
TGAAACAGTGGCGTGGAAGAAATACCAGATGGTATGCATATGGCTTTG
GGAACAGCTTTCAGCAGTGGTCACTTGTCTTTTTTTAATGCATTTCAAAA
TGTGTTTGGTTAGCAAAAAATAATGAGATAATTCCTCAAATAAATGG

>Sequence 919

GGTACAACAATTTATCCATTCCCTTTAGCAATAGTTGGACACTTAGAATGT
AAAAGTGTTCAAACAAATTGGTATATTGGAGTTTGGGTAGAAAGAAGGGC
GTTGGAAGAGGAGGAAAAGAGGGTGAGATGATACATTAATATAAATTACT
GAAAGGTGGTGTTCACATTTAGAATTTTTTTTTTAAGTTGCATGTTTAGG
ATTTTAGTGCTCAGGAGGAAAGAAGGCCAGTGTGGCCCTTCAGACCATC
GCTGCCATTTCCCTGTAATATATCGTGTGTAGAGGAACCTAATGCCTGCA
G

>Sequence 920

GGTACTGCTATTTCTAGTTCAAAATCACAGATTTTCAGATTGAAAAAATT
TCAATCCACTTATTTTCAAATGAGATAACTGGGACAAAGAGAAATTCCA
TGACTTGCCCAAGATTACCTACAGTTTAACTGTCAGCGGGGCTTAAACC
ACAATCCACATCTCCTGACTCCCAATCCTTTCACTTAAACAAACAAGCA
CACAAACAAAAAAGATTTCTAATAAAGTGGAATAATTTTAAGAAAGGCAA
GTATCACTATTTTACAAGGAAAAAATTAAATCATTTTAAACAGATTGGC

>Sequence 921

GGTACTCACATGTAAACTTCTACTTTCCCTTCAGATTACAGCAACCATC
ATGCCAAAGCTATACACTCTCAGGGAATCCCTGTGGATTTCAGTATGAC
CACTTGACCAACTATCATAAAGATCAAGGCCAGGGGTTCTCAAACCTCTCA
ACATTTGTGTGCTCATCTCCCTTCACCCAGAGACTCCCCAGGGCTGCTG
GGCCACACTTTGGTTTGTGTTGACTGGAACATAGTTTGAAAGGGATGGAAA
TTTCCAAAAGGTGTTAATAGACACATAAAGATTTTAAATATTAAAAAA
AGAAAAAGAAAGAA

>Sequence 922

GGTACATACAGTATGCACTCCCTTCTCTGTGTTTTTTGTCTGAGTTGATG

264
Table 2

ATTTGGAGCTCAAAGAGCTAGCGGAGGGAAAAAGCTGAAGCCATTCAAACA
CATAATGAGAATTGGAGATGTAAAAGAAGGCTGAGTTCTAGGAGTTGCAA
CAACTTAGGAGATAACAGAACCAATTCGGAATGAGCAGGAATTGTAGGAA
TGCAGGCGAGGACTAGAAGAATCAGCTACATGCTGTTTACTGGCAAAGCA
GGAGAAATGTGACTGAGGACAGTATGCCACTGAAAAGCTGATGAAAGAGGA
GGGAGACAGGAGGA

>Sequence 923

GGTACTGTTGTCTCATGCTCTCTTTCTGTTAATAGCACCTCAATTCTACT
CTGGGGGACATTCTCTCTCTTTTGGTCTGGAATGTCCCCTGGCTTCA
GGGACAGCTCAACATGGGCCTGGACAGTCAAATTCATCCCCAAGCTTGG
GACTCAGGGAGACCATCCAGTGAAGTCTGCTGAAGTGCTGGGAAGGCAGA
GCTCCCTTTCTGCGGGGTGCTGAGTGATGGGACGACAGTGTGGAGCTACT
GNGCTCTCCAAGCCGGTGCCAGGACCAGCCTGCCTGAGAACGAAGCCAG
CA

>Sequence 924

ACTTGCCTTGCAAAATTATATTACAAGAAGAAGCACACTTGTTATAGAAG
TGCTGAATTGTATGGAACCTAAATCTGTCAAGTTACCTGTCTTTCAGGTC
CGTCTCCCCACCTCCCAGACCTCATTATATTATCCCGAAAAGAACACGAT
CTCTTTAAGGCTAGGCAAGTATTGCGCTGATGAGCCAGGGACTGCCACC
AATTGGCAGGCCCCATTGGGTGATAAATGTCCAAGGACCTCTAGGCTGACG
ACACATTTTTTCATTAATCCAGCCTATTGTAACCAGGGCCACTCACAT
TGATT

>Sequence 925

GGTACCTACTGTGTTGAGCCCTCTTCCATCTCCTGTAGTTTCGTCAGATC
CTGGAAGTGCCCTGACGGAGAAGTTTTACAAAATGAACTTCGAACTGAA
GTATCCCGATTGAAACGGAGATCTAAAGATCTGAATTGCCTTTATCCCAG
AAAAAGACTTGTGAAATCTGAAAGTTCAGAGTCTCTTCTTCTCAGACAA
CTGGTAATAGTAATCACTATCATCATCATGTGACATCCAGAAAAGCCACAA
ACAGAGCGGTCTTACCAGTGAAGTGTCCATTGGTTCCAATTCCTAGCT

>Sequence 926

GGTACCCAAACACAAGATTGCTAATAGACTGCTAATAATAGAACTTAATA
AATGAAATAATTTATTTCAATTTATTGTTGCTTGAATACAGAAAGTGCTT
AGTAAATATTGAATGAATCAACAAAGTACCTCCCAATATAGAGAAAATCAC
TTCTGAAAAGGATAAAACCAAGTTGATCCTATTCAATCGAAGGCATCTTT
TGGGGCTGTTACAGTTATTTCTTTATTTGAAGAAGGAATATGATATACC
TACTTTGTTCCAAGTCACTGCTTATAATGTGCTAATGGTACCT

>Sequence 927

GGTACCTGTGAAGACAGCTACACCTGGTTTCTCCCTCATGCCTTGATCC
CCAGAACTGCTACCTTTCACACGGCTGGAGCACTCCCAAGCTGTGAATGTC
ATCTCAACAACCTCAGCCAGAGTGTCAATTTCTGTGAGAGAACAAGATT
TGGGGCACTTTCAAAATTAATGAAAGGTTTACAAATGACCTTTTGAATTC
ATCTTCTGCTATATACTCCAAATATGCAAATGGAATTGAAATTCAACTTA
AAAAAGCATATGAAAGAATTCAAGGTTTTGAGTCGGTTCAGGTCACCCAA
TTTCGAAT

>Sequence 928

GGTACAAGAAAGAAAACAAATACCAAGTATTTACAGATCCAGAGAAAGTT
CACAAGAATGGGAGGATGCCAGTTCCAATGCTTTGTAAAGTCAAAAATAG
CCACATTGCAAAACAAACAAAAAAGCAGAACGTTCCCGAGTGTGCCT
CCAAAACATAAAGGAGAAAAATCATACAGAAAAACCTCATGTAAGGGTTGG
AACTTGAGCAACCAGCTATCCAAATACAGAGGGGAATCCTCGCTTAGCTA
GGGCATGGCCTGAGAGAAGCCCTTCTGCTTTCAGAGCCTACAAGTAGT
CCCCAG

>Sequence 929

GGTACTTAAGCAATAAATCTGAGCAATTATCAGGTTATTTTATTGCATTT
CTAATGAGTTCTTCTAAAAAAGTCAATCAATTATCACTGCTATATATGT
TCTGTGTGTAAGGAGTGCTTGAGAGTCTTAATTGTAACATTTATTAAAT

Tabl 2

AAGAATAAGAGGACATTTTAAAGGAATTAAGGAACATTAATTCCTTCA
TAAATGTATAGTGCTTAAGCTCTGCTTAAAGGTCTTTCCATGTGCTCT
TGGGTAACCACTTAGGGCTGAATTCATAGTATAAATATCAATAAATGTTG
CAATCACAAT

>Sequence 930

GGTACGCGGGTGGGAAAGGGAGGATGACTCACTTACTCTGAAATCTGGGC
CCAGGAAGGACCTCTOCCATCCTTGGAGCCTCCTCATTCTCCTGTCTCTC
ACTGTCCCCCACTCTACCATGATGTCTCTATTCTGGGAACCCCGAGCA
GGGATAGTGGCTTGGGCCCTTCGTCTGGCTTTTCTCCCCACACTTGCTTC
CTTCTAACATTTTCTCCTCATCTGACATGGAAGGGGCAATGGTTAACCC
AGAAGGGAGGGCAGAAAACAATGGCCCCACATCCTGGCTCTGCCTCTGAC
AAGCTGAGT

>Sequence 931

ACGCGGGATTAGAGACAGGGTCTGGCTCTTTGCCAGGGCTGGAGTGCA
GTGGAACAATCATGGCTCACTGCAGCCTCACCCTCCTGGGCTCAAGAGAT
CCTCCCACCTCAGTCTCCCTAATAGGTAGAACTACAGGTGCACACCACCA
CGCCTGGCTAATTTAAAAATTTTATAGAGACAAGGTCTCACTATGT
TGCCACACTGGTAAAGTATTTTAAATTCGAGACATGAATAATGATGCA
AATCATCCTTTCTATGGGTCTGATTCTGTTCTGCTACCTTATTCAAGGAC
TAAA

>Sequence 932

GGTACTTTTTTTTTTTTTTTTTTTTTTTTGGATTTTATAGTAGACA
CGGGTTTTCGCCGTGTAGTCAGGATGGTCTCCATCTCCTGACCTCCTGA
TCATCCGCCTTGGCCTCCCAAGTGCTGGAATTACAGGCATGAGCCACCGT
ATCTGGCCAGAGAAATTTTAAATATAAATTTTTCAGTTACCACTTAAA
GGGAAATATGATTAATAAAAACTAAATAAAGAAGAGCTTTAGTAAAACCAT
GCCCTCTTGCTAATCTATTAAGAGTCAAATCTGAAC

>Sequence 933

ACAGTATGTTTCCACTTATGGACAGATAATTACGTAGTAAACATAGAAAC
ACACGAACTGAAAGGACACACACCAGTATCAGAACTAAGTCACCCATGGG
GAGGGACAGAAGGAAATAGGATGGAAAGGGTTGAGGGACTTCAACTGTA
TTTGTGATGTTTATGTTCTTTAAACAAAAATCTAAATGACATTTGAAAT
ATGAAACAAACGCAGAAAACATCAAAATGTCAACAATACTTAAACCTGAG
TGTTGGGTGCCTGAATGTTATATTGGTCTCTGCAN

>Sequence 934

ACCCAGTATATGAGCAATTGCTCAGCAGTGTGATATAGGGAGTGGAT
AGCTATTATTAATTGCAGATTATTTGGAAGGAAAAACACACAGAGAATT
ATGTATCTTTCAGTGTAATGTTAGTTCTAAAAACAATCATATTATTAC
AAAGCTGCAGTTATAGAACACAATTCTGATTCTGCCTCACCCACCGT
TAATACTGTAAACATTTCTACGTTTCATCTGATAGTGTTATTAATAAT
AGCTGTTATTTTAAATAGCTATACTAAACATAAAAAATGTTTAGGCCAGG
CGTG

>Sequence 935

GGTACCTAATTCATAAGATAAGGATTAATGAATTAATAATATATAAATCC
CTTAGATAACAATGCTAGGCATATGTTAAGCACTATGTTAGTATCATCAA
ATGTTGTGTACTGTTATGGAATTTATCACAAATATGTAATTATATGTT
TCGTAGTGATTATTCATCACCCCTACTGGACTCTAAGGTCTGTGAGGATA
TGTCTATTTGGTTTACCACTGTATCCTCAACAAGTCTGGTTGTCCCTAT
TGTAAGTGTTAGGTATTAAGTGCATGATAGTGAATACATAAAGGTTA

>Sequence 936

GGTACTACAGATTAAGTATTAATATGCTGTGAGTGCAGATAGAGAACAGA
AACAGGCTGTTTGATTTACCATGGTCAATGCTCTGATGTGCCAAACACA
GGAGGTTGTGGGAACATATAGACAGTGACCAAACTTTAATGAATACAGG
AAGATTTTCTGAAAAGATGACATGTAGCAGACAGCTGACAGACGAGTTT
ACCAAGTTCAGAACTTAAGTGATAATAATCTTTTATCATAAAATTTTAA
GTGTGGTAGAGAATAAAGTTTTGAATTAATGTTGAATGAAATGTGTTA

266
Table 2

TG

>Sequence 937

ACACTAAAAATAGAATATAAGGCAGTGAAATCAAATCCTGGCTCACTTGA
AGAAATAACAGTCTGTGGGCAACTGGTTGTTTCTCAGGTCACCTCAGGGG
ACAGATGGTCCCTAAGGTGCAAAAAGAATGAACTGGTGCTGATATATGACT
GATAAGTTTCTGTAAACGGGCCACTGACCATTTCATTCCTCAAGGAACATA
AATTACCTTTTAGCCTGTGTATTTACACACAAATATGCAACCTGCAAACT
TCTTCTGAGGACAGATGTCAACTACTTTTTCATTTTTTTTTTTACAGTCA
AAG

>Sequence 938

GGTACCAAGTATACTTCACCAGATATCTATAGAACATTCCACTCAGCAAC
AGCAGAATCCAGCAGAATATATATTCTTCTGAAGTGTATGTGGAACATTC
TCCGGGATAGACCATATGTTAAGTCATAAACGAGTTTCAATAAAATTTAA
AAGGACTGATATCATACCAAGTATGCTCTCTGACCAGAATGGAATGAAAT
TAGAAATCAATAACAGAAGAAAATTTGGGAAATTCACAAATATGTAGAAA
TTAAAAAACACACTCCTTAAACAACCAAGTGGGTGAGAAAAGAAATCACA
GGGN

>Sequence 939

CCCTTAGCAGCGGCCGGGCCGACGGGCTCTTCTTCCATACTCTTTTAATT
GGATATGCCAGTGTGTCTCAGTAATTTCCAGTGGCTGTAAAACTTTGAGA
AATTTTGTAGCTTTTAGAAACCATACCTGTATTGCCTGATTGCTTATT
AAGTGATCTCTTAGAGGTTTCCAAAGTTATGAGTTTGAGTTTACAAGTGC
AGTTTTTTTCCATGAAAATTTCAAGTGGTGACAAATTATAGAATTTATCAT
TCAATTCAGTCTTAAGTAGAAAATAATTGCATATAATAAAACAGGTTCTTG
ACTGTTCTTTTT

>Sequence 940

ACTGCCACTTCCATTTTGTAAGTGAAGCCCAGAGAAGCAAAGAAATGTGC
CCTAGGTCACATAGCTAGTCGGTGGCAGAGCTGTGATTGGCAGGTTGGTC
GAATGCCTCCAAAGCCCTCGACCTTCCCACTATACTTCACGCATCTCTAG
AGAAGAGACAGAAGTAGCCAGGATGAAGGTCTTCAGGTTTAAGAAGAACT
ATGAAAAAGCAAAGATTTTGTTCGTGGTTTTTTTACTATAAAGGAA
AACTTTAAATAATAGCAAGAGTGCTATAGGTAAAGATATCAGAA

>Sequence 941

GGTACCTCGTGGTTGAACTTATTTGGGGACAGAATTGAGACGGAAAAAATT
TGATATCAAAGGAAGTATCAAAACCCTTGATGTGGTTAAGAGCATGGATA
GTGAAACTAACCTCTGATGTATGGTGAGAGAGCAAAGAGAAAGGATTGC
AAAGAACTGGAATGTAGAGGATGAACATATTGGTAATAATAATACTGGT
GGAATTGTTATTTCAGGAAAAAATAGCAATTATTCCTGTTTATCTCAAA
TCATTGTATGTTGTTTATTTAAAGGGAGACATGGTAGAAGATATCAATA
TAAAAAT

>Sequence 942

GGTACATGAAAAATGGCTGTTTTTCCCACTTAGTCAGCTCTGGATTTTG
CATGTGTGGGGCTTTTTTTTGTAGTTATTTGTTTTTTTAAAAAAT
TTATTTTGCCAACCCAGTAGAGAACAGCTGAGCATCTTCTCATGTATTTA
TTGGCCATCTGCATTTCTGCTGCTTATTGGCCATGTATTTATTGGCCATT
TGCCGTCTGCTGTGAAATGTCCTTAAATTTTTTGGCCATTTTCTAGTGAT
AAAACACTGAAGCACATTTTAAAGACTTCTGATGATTTTTATIGTC

>Sequence 943

ACTTCAGGAGATACATTCTGCTAGTTTGGGGTGGTGTGTTCTATAAATGT
CAATTTAATCCAGTCGGCTTATGATTTTCAGTTCTATTTCTTACTGATT
AATGTGTATATACTAGTTCTGTTACTAAGGAGGGATGTTAAATTAATCCC
TAGCTGTAAATTGTGCATTAGTTTGTCTCTTTTCAGCTGTTCTAGCTTCAT
AAATTTTTGGAGCTGTTAGGTGCATATACGTTTAGGATTATTTGTCTTC
TTGGTGAAGTAGACCTTTTATCATTAGGAAACT

>Sequence 944

GGTACAAAAATCAACTTTCCTTTTTACTATCTGGAAATAGGAAAAATGTTT

Table 2

CATTCACTATGGTGACAAAAGCTGTAAAAATAGGAATATATTTCTGAGGAAA
GTATAGGTATTTACAAATAGATAAACTATATTCTTAGATGAGAATACTTA
ATACCCACTTTACAAAATTAATAATGAATTACAGCTTTTAAAAATAGAT
TAAGCTGGGTGTGATGACATGGCACCTATAGTCACAGCTACTCAGAAGGC
TGAGGCAGGAGAAGCACCTGAGCCAGGAGTTTGAGGCTCTAGTGAGCTA
TG

>Sequence 945

ACCTGCAAGTCCAAAGAGGACCAGGAGGATCCCCGCCAAAAGAAGGGTAA
TCGATGGGACACCAAAGTTATCAGTCAAGTAAGGCAGAAATGCTTGAATG
AATAAATGTATATAGATAGAAAGTAGAGACCTTGATAAAGTCAAACCTCT
TGCCTTTACAAGTGTGTGTTTCAAGCAGCCATGCAAGGGAGATGCCCATCTG
GCAAGTGGCCAGGGCAAGGTGTCAGAGCCCTAGTGGCAGGGAGATGGCAT
CCACATATGAGGGAGGGTGACATGGTGCTAACTGGGCATCTACATAGGGC
AGGG

>Sequence 946

ACTGCATATTTAATGAATTATTTTATAAATTGCTGTTGTGAAGCATTTGT
GAATGACCTGCCTCTAGCTTTCAATGCTATTGCCAGGCTGACTTTTAT
TGCAACTGTTTTATGATACAGTTTGCATTGTATGTGTTTACTTTTTAA
GAAGCATTTCTGGGAGGTTTCTTTTCTGGTTATGAAAATAATATATGC
TTATGGGGAAAAATTGGAATAAGAAACCAGTATCTAGAAGAAAAATCAC
TCAATATCCAGCACCTGTTAATACTTTGTCTTTTCTTACAGTTTCTAA
TA

>Sequence 947

GGTACCAGTAGATGAGAACTACTTATTTAGAGTGGCAGAGCATGCTATAG
AAACAAAATATGAGTAATTCTAACTGTAGTTATGTTATATTAGCATAGTG
AGATAGTAACATTAATAGAATTCCTTAGGTGGAATTTCTTTAATGCCTTC
AGTTTCAATTTTAAAAAAGAGTGTATGTAGAAAGAGGGAGTGAAG
GTTTGTAGAGGTAAAGAGGGTGAGATTTGATGGTATTTTTTTAGTTAGG
ATGAGATAGTAGAGGTAGAGGTTATAGGGAATGTAGGTTGTAGTTTTTA
TTN

>Sequence 948

GCGCCTTTCAGCGGCCCGGGCAGGTAAGTATTTAATGAATATTTTA
TAAATTGCTGTTGTGAAGCATTTGTGAATGACCTGCCTCTAGCTTTCAA
TGCTATTGCCAGGCTGACTTTTATTGCAACTGTTTTATGATACAGTTT
GCATTGTATGTGTTTACTTTTTAAAGAAGCATTTCTGGGAGGTTTCTTT
TTCTGGTTATGAAAATAATATATGCTTATGGGGAAAAATTGGAATAAG
AACAAGTATCTAGAAGAAAAATCACTCATAATCCAGCACCTGTTAATA
CTTTGTCTTTTCTTACAGTT

>Sequence 949

ACCAAGAACTAAATTGTGATACGATAGGTGACTTATGAGTAGCACAGAAT
GTAATAGGCCCATCTCTACCTAGTTCTGGTCACCACACTTCTGTCAAGGT
AGCTCGGAGAGACGGTGTCTACTTATTCACCACATCATGAGATCACCTCA
AACTGAGCAGGCAGCCAATGAAAACCGTGAGCTTTCTTTACATTAACTTT
CTGAAAGTCATTTTTTCTTATCCACTTTGTGCCTTTTTTAAAAAGCTGC
AGCTTCATGGAATTTAATCCTGGTATTTAAAAACACTT

>Sequence 950

ACTTGGTAGGTTGATCTCTTTTCACTTCTCATGGTTTAATTACCATCTATTC
ACTGATTACTCCAAAAGCTGTATCTATAGTCCAAGACTGTTTCTAAAAGG
TCTGCACCCACATATGCAAATAAATACCAGATATCTCTCTTGGTTATATT
GCACATATNTCAAACCTCAATANGTTCAAACCTGAATTCATCTTCCCCCT
AAATGTATTTTTTCTTCCCCCTTTTGTATGAAAAGGGATTACCAAAAACC
CCACCCGCCAGGTTAAAAACCTGGTTTGGAAAAATTTATGTTTTTTTAC
CCTTTTTTAAAAGG

>Sequence 951

GGTACTCTTAGGAAAGAGTAATGGGGTTGAGGATGGTTAATTTAGCCCAT
CCTAACTTCTGTGAGATTTTTTTCAGAATATTTTGGATGGTTCTCTCACT

Table 2

TTTGGTTATTAAGCATTGGAAGAAGATTCTGCAGCCTACTCAGGTGAGC
CAATCTCATGGCATTGAACAGAGAAGATATGTTTTACGTCTCTAACCAG
TGTTTTTCATAGTGTAAGTCAGGCCTTTCTCCTTTGATCTAAGTGGAACC
AAGAGGTTAGATACTCCCTTTCTTTAGTTATATAATGGGCTTCATGTAA
CTA

>Sequence 952

GGTACACTCTGTAGGTCTACAGGTAAAAAGCTATTACGTTGCAAAACATTA
TAACGTAATGTAAGGTCTGGATTACATGCCTAAAAATCCAATGATTCTTG
GAACCATCAAACTCTGTTAAGACTGAAAAGAATACCAATGTTTAAATATAT
CTATAAAATGCAGGTCAAGGGGCTAAGAAAAATTGCAACACTAGAAAACCA
ACAAACTTAGGTTGTTCTAACATACATACACAAATACAGGAGGGACGTTT
ATGGGTCACATCTGCGAAACATTTTTTCCCAAAAAGCTGAATTTTT

>Sequence 953

GGTACCACCAATAATTATGCCACAATTTTATCCTAAATAAGAGTGATTCT
CCTGTTCTTTTCTACAGAACATGTTTCTGTCCGCAAAGAGAATAAGAA
AACATGACCCCTCCATCCAGAACCAACTAAACTCAGGAGTGATTAGAAT
CACCTGTGGGCATTTTCCCCAAACCACCCATACTCTGTAGATTCTGATA
AGCGCTCTTAAAGAAGCTACAGCTCTTCCCCATTCCCTATCTGAAAGCAA
GGAACCACTGCTTTGGTCAGGAAACAGGCATACAACATCAGATGTGATTA
TAAA

>Sequence 954

GGTACCAGATGTTGTAAAATTTACTATAATTAATAGGAATTAATTAATGA
ATGCCAAGGGGCAGAGCCACACTTCCTATGATAGTTCCCTTGCTATAAGGT
GCTATTTANNGTTCTCTACATTTACTCCATAGTAAGCTGTTGTTTGAGAA
AAAAAATGCCAGTTTGGTGCGTAGTAGATACGCAGAGGCTGAGAAAGGAA
CAGATTACCCATTACCCAATGGTTACAGAAATGTATAATGCTTCCCTTTAA
ACTGGTTGATTTGTTTTTTTACA

>Sequence 955

GGTACCTTTAAGCCAGATTTCATGGTATGAAGGCAGCAGCATAGCACCTCC
ATTGACCCACATGGGGGCTGCCTTGGGCTTCATCAGCCCTTTGGAGTCT
CAGATCCCTCACCTGTTAAAGGAGAGTAATACTACCCACTTACCTTTTTG
GGTTGTTGTGAAACACACATAAGACAGTATTAGGAGAAGTAAGGTCTGAG
GGCTGGGCTTTGGACCCAGCGGCCCTAGGTAGAGGCCTGTTGAATTGGA
TGACAGTGAACCTTGCAGCATTTCTTAACCTCAGAAGTTCAAGAG

>Sequence 956

GGTACTTCTGCTTTATTAGTCTAGGTAAGAAATGTAATGGATGTGTGCA
GGTGACATAATTTACAGGGGATAAGGTAAAAATTAGATGAAGCCCAAGCAA
ATATTCTTAAAAAGAAAACTTAGGATTTTTTTTACAAAAGTTAACTTA
AAATGCATTATCTAGAATAATGTTATAAATCAACGTATAGAGACGTTAGT
GAATAGTTCCTTCATTAGGATGTTGAAGGAATATGGTTTCAATATTCAA
CAAATGTCGTGATGCCTATAAATTTTTCTACAAACAAGAGTATGTT

>Sequence 957

CCCTTAGCGGCCGCCCGGGCAGGTACTTCAGGAGATACATTCTGCTAGTT
TGGGGTGGTGTGTTCTATAAATGTCAATTTAATCCAGTCGGCTTATGATT
TTCAGTTCTATATTCTTACTGATTAATGTGTATATACTAGTTCTGTTACT
AAGGAGGGATGTTAAATTAATCCCTAGCTGTAATTGTGCATTAGTTTGTC
TCTTTTCAGCTGTTCTAGCTCCATAAATTTTTGGAGCTGTTAGGTGCATA
TACGTTTAGGATTATTTTGTCTTCTTGGTGAACCTAGACCTTTTATCATT
GGAAACTGTCCATATAACCACT

>Sequence 958

CCCTTTGAGCGGCCGCCCGGGCAGGTACTCCATAATATAATCTTTTAAAT
GGGCAACTTCTAAATATTGATACAACCATTAAATAATGCTTATAGGGT
AAAAGAAAATTTTTGAAGCACTGAATTACGTAACCTGGGTCATGGTCCAA
TTTTGCTCACTACTTCATATCTTTTATGTAGATTATTCCTATAAACATGT
TCCCTAAATCCACATCAGTTTGTAAGTCAATGGATTAAATTATTCAAA
TGTAGCTATTTAACGGTCAGTAACAATGCCTAGAAACCTATT

Table 2

>Sequence 959

GGTACTTTTTTTTTTTTTTTTTTTTTTTTAAAGACAGTCTTGCTAT
TTTAAGTCCAGGCTGGACTCAAACCTCTGAAGATTGCTCAAGCAATCTTC
CCACCTCAGCCTCCCAAGTAGCTGGGATTACAGGTGTGATGTCCAGCTTA
GGTTCCAGCTCTTAAAAGAGTTGTCAGTGTGGTGGGCGAGGTGGGTCACA
TACACATATAATTATAAGGTAAAAAATCACAACCTACTACAAGAAAGGTGC
AAACATTTATGAGAAAACCAAAGAAGGGAN

>Sequence 960

GGTACTCCAGCCTGGGTGACAGAGTGAGAATATGTCTCAAAAAAATTAT
CAGCAGAAGATAATATAGACCCCAAGGCTAAAGGGAACCATTATCATCTC
TAGGCCTGAAAGCCTAGGAGAGGGTGTCTGATGGAGAGGACTGCTTCTGA
CAGAGGGATATAGCCAACCTTGGTGGCCTAATAGAGAGGAAAGTAGGGAA
TAGCTTCACCTTCCTTCTCTAATCTTCTGCTAGTATCCCTATTAATTTAG
CCTAATTAGAAGCTGGAAGGTAGGAGAGCCTCCATGGGCAAAAAGCTGTG
TAGAGAACATGGATCCTGAGGGGGTAAATGGCAGATAATCTAGCACAGAT
TGG

>Sequence 961

GGTACTCCAGCCTGGGTGACAGAGTGAGAATATGTCTCAAAAAAATTAT
CAGCAGAAGATAATATAGACCCCAAGGCTAAAGGGAACCATTATCATCTC
TAGGCCTGAAAGCCTAGGAGAGGGTGTCTGATGGAGAGGACTGCTTCTGA
CAGAGGGATATAGCCAACCTTGGTGGCCTAATAGAGAGGAAAGTAGGGAA
TAGCTTCACCTTCCTTCTCTAATCTTCTGCTAGTATCCCTATTAATTTAG
CCTAATTAGAAGCTGGAAGGTAGGAGAGCCTCCATGGGCAAAAAGCTGTG
TAGAGAACATGGATCCTGAGGGGGTAAATGGCAGATAATCTAGCACACA

>Sequence 962

GGTACTTGAGAATATGATTGTAAATTTGATCAGCAGCTACAACATTTCAA
TGATGCATATTTTTTTTTCAGATGCATTCCTTTGATTGAATTTAAAGTCA
AGCTTGTGCTTCTGGATGGTTGCTTTGTCAAGTGAACACTTGGATTGGAA
AATACAGCACCTGGGTGGTTTTGAGAGAAAAATGGTTTCAACTTTATAAT
TACAGTTTTAACCACCACAACAACAAAATTAGGATGGTAGTGAATGGAA
CTAAATCAAATGCAAGGTTTTAGTTTAATAGAACAATGTCATCCTTTAAT
AATCTTTAAAGAAGAACAACCTTAATAACCAATAACAAAATTGAAATAGGT
CAACTT

>Sequence 963

GGTACTTGAGAATATGATTGTAAATTTGATCAGCAGCTACAACATTTCAA
TGATGCATATTTTTTTTTCAGATGCATTCCTTTGATTGAATTTAAAGTCA
AGCTTGTGCTTCTGGATGGTTGCTTTGTCAAGTGAACACTTGGATTGGAA
AATACAGCACCTGGGTGGTTTTGAGAGAAAAATGGTTTCAACTTTATAAT
TACAGTTTTAACCACCACAACAACAAAATTAGGATGGTAGTGAATGGAA
CTAAATCAAATGCAAGGTTTTAGTTTAATAGAACAATGTCATCCTTTAAT
AATCTTTAAAGAAGAACAACCTAAATAACCAATAACAAAATTGAAATAG

>Sequence 964

ACACTGCATAAAGCCAGAGTTAAAACTTCACTGCCAGCCTCTGAACAGAA
GGCTGTTCTATCCACACTATCACAAGACCTGGTGGAGTTGAGGCAACTGC
TGAATTACCATACAGGGAAGAATGAATTCAAGAAAAATCCCATGCAAGAT
AGGCTCTTAAAAAATAAATTTACACAAGAAAAATCAGCACTGTAAAGGTAA
TTGATAAGCCCAATAGAAGGGAAACCTATACAAAGAAATAGAAATAACTA
AGCAATCTGAAATGGACTTTAAATAATGATGT

>Sequence 965

ACACTGCATAAAGCCAGAGTTAAAACTTCACTGCCAGCCTCTGAACAGAA
GGCTGTTCTATCCACACTATCACAACCTGGTGGAGTTGAGGCAACTGCT
GAATTACCATACAGGGAAGAATGAATTCAAGAAAAATCCCATGCAAGATA
GGCTCTTAAAAAATAAATTTACACAAGAAAAATCAGCACTGTAAAGGTAAT
TGATAAGCCCAATAGAAGGGAAACCTATACAAAGAAATAGAAATAACTAA
GCAATCTGAAATGGACTTTAAATAATGATGTTACAATTCTCTAAGAGGA
AAAGGAGCATTAGCATCAGTGAAACAAAAGTAGGGCTATAGAAAAACAA

270
Table 2

TACTTATGAAAAAACCAATTGGAAATTTTTAGATGGAAAAGCGTGAAATA
AAAAATTCAACACATGGTCTAAAGAATAAACTGCACACAGCTGAAAGGAA
AATTAGTTAATTTTACGAAGAAACAATAAATCTCACAGAATGTNAAAGAG
ATAAGATATTTAAATAAATCAGAGTAAAGAGATATTAAGTATATACAT
TTGAGTATATAAAATCCATATGGTGATATGGATACATATATATACCAGAA
GGAAGGACAGAAGAGATACAATATTTGGACAGAACATGGCTAATTTTCA
GAATTATTAAGACTTGAGCCCTTGAAACAGGTCCAGGAGTACCTTGGC
CCGGAACACGCTTAGGGGCGATTCCAGCACACGGCGGGCCGTA

>Sequence 966

ACGCGGGTCAAAAGGATGAAAATGTTTTCTGTCAGAATGAAATTCAAGAA
AACTTAAAGGAAATAAAAACTATTTAGCACCCAGTGAGGTAAAAATCGCA
ATGTCTGGTGTCCAGTCAGTTACCAGGCATGGAAAGAGACAGAAAAACAT
GAGCCATCATGAGGAGAACAATTAGCAGAAACCAAACCAAGAACTGACATA
CATACCAGAATTGGCACACAAAAGGATATTAACAATAACAACCTGCGTT
CCATATGTTCAAAAAGTTAGAAACATGAAAGAT

>Sequence 967

ACGCGGGTCAAAAGGATGAAAATGTTTTCTGTCAGAATGAAATTCAAGAA
AACTTAAAGGAAATAAAAACTATTTAGCACCCAGTGAGGTAAAAATCGCA
ATGTCTGGTGTCCAGTCAGTTACCAGGCATGGAAAGAGACAGAAAAACAT
GAGCCATCATGAGGAGAACAATTAGCAGAAACCAAACCAAGAACTGACATA
CATACCAGAATTGGCACACAAAAGGATATTAACAATAACAACCTGCGTT
CCATATGTTCAAAAAGTTAGAAACATGAAAGATACAAAAATAAATCAAA
CTTCTAAAGATGAGAACTGTAGTGTGAGGTGAAAAATATGCTAAATG
GCATTA

>Sequence 968

ACGCGGGCGGTCTGTGCCCCATCACCATTCTAAAGCACCCCTACCCTCAT
GGCAGTGTCCCAAAGGAAGGGGTTTCCATGGTAACCTCAATGGATACAGT
CAGCTGACGTCTGGCACCGCCTGTGCTGGTGTGCGCTAGCCTACTCACTC
CCTCGGCCCTCCCTCAATCCTTTCAACTATATTTATTAGTTCTCTTAAT
GGAAAGTATATAATCCCTTAATGTCAGACCTTGAGTGGCACTCAGCTTTA
TTAATTTATTTAGGTAATAAATTTACCTTCCTAATTAATCTCAGTAGTC
CTGGGAGCTGTATTATTTAAACATCTTGCACAATGTC

>Sequence 969

ACGCGGGCGGTCTGTGCCCCATCACCATTCTAAAGCACCCCTACCCTCAT
GGCAGTGTCCCAAAGGAAGGGGTTTCCATGGTAACCTCAATGGATACAGT
CAGCTGACGTCTGGCACCGCCTGTGCTGGTGTGCGCTAGCCTACTCACTC
CCTCGGCCCTCCCTCAATCCTTTCAACTATATTTATTAGTTCTCTTAAT
GGAAAGTATATAATCCCTTAATGTCAGACCTTGAGTGGCACTCAACTTTA
TTAATTTATTTAGGTAATAAATTTACCTTCCTAATTAATCTCAGTAGTC
CTGGGAGCTGTATTATTTAAACATCTTGCACAATGTTTATAGTTCTGCG
TGTT

>Sequence 970

GGTACCAAGATTATGATAGCCTCTTAAACAAATTGGAGGTTATAACCTT
TTTCTATTCTCTGCAACAGTGGATATAGGATTGGAGTTATTTTTTCTTA
AGTTTTTGGGTGAAAAGTCCAGTGAAGTCATTGTGGGTTTGGATTTT
TCTTTGTAGGAATGGTTCCCTTAATTTACTAATATAGCTTTTTCCAAAATA
TGTTAATGAGTAATTATCCAGGGGTTTTCTATTATCCTTCCCTTGTGG
ACAAATTTTTGTCTGGTCTTTTGTACTTATAAAAGATATTGATTCCAT
GCCTAATAAAGTGTCTAAATTAATTTATTTGGGATATCTAATTCCTTA
TTTTTCCAAATATACGAATTCCTATGTATATATTTATTTTACCAAAGC
ACCAAGTGAATACTTTTAAATGGTTCTTTAAAG

>Sequence 971

GGTACCAAGATTATGATAGCCTCTTAAACAAATTGGAGGTTATAACCTT
TTTCTATTCTCTGCAACAGTGGATATAGGATTGGAGTTATTTTTTCTTA
AGTTTTTGGGTAGAAAGTCCAGTGAAGTCATGTGGGTTTGGATTTTCTT
TGTAGGAAGGTTCCCTAATTACTAATTAGCTTTTCAAATAGTTATGAGAA

271
Table 2

TATTCAGGTTTTCTATTTCTTCTGTGTCAATTTTGTGTCTTTTTCTAT
AAATTTGTTTCATCTATAAATTTTAATATTTTGGTATAATTTTTTCAAAA
TAATCTTGATTTTATTACAAGACAGGATCTTAATGTTTAATGACAGGAT
CTAT

>Sequence 972

GGTACTCCAGCCTGGGGGACAGATTGAGACCCTGGCTCAAAAAATTTTT
TGATTATGAGNNNGANGAAGGAAAAGAAAAGAAAAACAAGAAAT
TAGCTCATGAATAGCCAGCCTTATATTATAATTATGTGACACTTTGGATA
TTTCAAAGCACATTCACAAAGGGTATGTCACTTAAATACCTCAAAATTC
CCTGTTATACATGCAGATCATTCCCCATTAGCCCTGGTATGGACTGAAC
TGTGT

>Sequence 973

GGTACTCCAGCCTGGGTGACAGAGTGAGACCCTGTCTCAAAAAAAAAA
AAGAAAAAGAAAAAGAAAAAGAAAAAGAAAAAGAAAAACAAGAAA
TTAGCTCATGATAGCAGCTTATATTATAATTATGTGACACTTTGGATATT
TCAAAGCACATTCACAAAGTGTATGTCACTTAAATACCTCAAAATTTCCC
TGTTATACATGCAGATCATTCCCCATTAGCCCTGGTATGGACTGAACG
TGT

>Sequence 974

ACAAAGCTAGAAGCAGCCTGGTCCAGATGGCTATACAAACCCTAAACTGT
CTACACCCAGACTTTATTCTTCTACAACCAAAATTCCTCAAACACACAATT
CTGGAACAGTAGCCAGTGAAGGGGAGTTTTAAGGGTGGGGGTGGAGGG
AAGAAGGGATTTAATATTTAATGGTTTATATTAGCTGTGTGATGGATTTA
TGAATTTTGTTCGTATGTAATCAATGTGTGTGAATATTGTATCTATATTT
AATCTTATTGTATGTATATAATGTAATGTTCCGTATTCGCTATTTTGATA
TTAATAAATGATATAAATTAATGGATAAATTCAAACATTGATCCATAGCT
TCTGTCTATACAGTAACAGTATTTCTATATAGTTATATCTCTAGTCATG
CTTTTTCTTCTTATGAATCTTTTAATCGC

>Sequence 975

GGTACGCGGGCTACCAAACCTGCATTAAAAATTTCCGGTGGGGGCGACACA
ATGATCTTATCTCTAACCTCCGAGCAGTACCATGCTATATTGGTCACTGT
AGCTCTGTACATAGTTTGAAGTTGGGTAATGTGATTCCCTCTAGCTTTGT
TAGCTCTGTTGTTTTCACTTAGTATTACTTTAACTATTAGGGCTTCTTTT
TTGGTTCCATATAAATTGTAAAAATAAAATTTTCCAGTTCTGTGATAAAA
TCTCAATCGGTAGTTTGATATGGAATAACCATTTGAAATCTGTTACCTTGC
CCCGTGGCGGTCCGCTTCAAAGGGCCGAATTTCCAGCTATCACCTGGTC
GGTCCGTTTACTATATTGGATTTCCTA

>Sequence 976

ACCTCTCATTTGTCACTTTTCAACACTTCCTGGCAAGCAGGCATCATAAC
TGGTCTGTGGGTGATCCAGACCACACTCTGCAACTCTTCTTCTGAGC
CAAGCTCCCCTACTGTCTTTTCATTTATGTCAAGGCAGGGGAAGAACCCTC
AAAGGGCTCTTGCATCCCAGTCTCACTTCCCAAAGAGGCACGAGGCCCTC
CAGGATGTGGGGACAGGAACTTTGGGGCAAGCCGGGGCTGTCCAGAAGAT
CACCAGGAGGGCCTAAATTGTAGAAAGGAGAGTCCTTTATTGGGTGAAAT
GTTTGGCAACTGGGAAAAGATTTGCCTCCCATTTGTGGAAGCAC

>Sequence 977

GGTACTTTAAAAAGTAAACAAATTTAACTGAAGCATGGCTATTAGTTAGT
GATTCCTTTGTAGATTTTCTGGAAGTCTTGTTTGTATTAAACATTA
ACTCTGCTGTATGCTGTAAATACACTGCTAAGATCAATATTGAAAAACGA
ACAATAATACCAATTCATATGGACCTTCAAATTAGTCTTATAAAATTTTA
TGATATGGTATTATCCAGCCAAGTACTTTGAGACTGACAAAAATTCTA
ACTTTAACCAGGTGATTCTTGCATTCTTTGGTTTAAACCTCAAGTTTAA
AAATATCTTTATATTACATTTAATTGTCATTAATCA

>Sequence 978

ACGACTTCACAACACCAACCACAGGTCTCAAGGTCAAAAAATGAGCTAGG
AGTAAAGTATCTGCTCCAGAATCTACCCCATCCCAGAAAGAGCAACCCA

272
Table 2

ACTGTGTCCTGAGTGGCTCTTAGAGTTTAAGACTCTGAATGAATGCCTAA
ATTTAGAAAGGGTGTGGACCAAGGGATTTTGGTTAATGTTCTCTAAAGC
AGGCTGACTGCCAGGATTTCAAGTCAGTGATAAATTTTAAATTTTATTA
TTTTTTTTCCCCCGGTACCTCGGTCCGCAACCACCGCTAAGGGGCGAAA
TTCCAGCAACACTGGCGGGCCCGTTACTAGG

>Sequence 979

ACCTGGCAGCAGAGTAGGCACTAATATGTGTTGAATGAGTAGGTGAAATA
AACAAAAACCTAATGGCGATGGAATTTTATGGAAATAAGTAACTTCATT
ATTGCTGAAAATACCGCAGATAAATAGAGGGAGGCAGTGTAATAGAGTGG
AAAGAGCAGTAGACCAGGAGTCAGACAGTCGAGGATCTCATTCTAAATTT
GAAGGTGAATAGCCATGTGGCTTTAGACAGGACTCTGAACCACCTTGTTT
TCTTATCTGTAAAGGGGGAAGTCATAATAGCTACTCTGCCTAACTCAT
AGGTTGTTGAGAAAATGAAGTGATTCA

>Sequence 980

ACATTACCTTTTATGTATGCTGGAATAAGAAGTTGTGTCTACATGCATGT
AGAAACAATGGAAGGATAGGCAAGAAAATGAAAAAAAATGATAACCTAT
GGGGAGTGATGGCCACTAGATGACTGGGGACAGGGGCTGGTGAGTGAGCG
CAATTATCTATTTAAACAATCAGAAATGCTCCCTAAATTACAAGTTTCTA
GTAAATGCAGTAAGAAAATCCCCACAAGCTCTGCAAAATAAGTTCTGTC
AATCAAACTCTTACATGATGCATTAAGTGAAGTATTTTAAATACTACCAT
GAATTCATCTTTAAAGTGTGACTTTGTAAAGCAGATAATCCTCCTGTT

>Sequence 981

GGTACAGTATTGTTGACTGGCTAACAGAGGACCAATTAATAAGCCAAAGA
AATGGCTCTTTAACAATGAACATTTCTGCCATCAACTGACAGATCCCAGG
AATAAATGTTTTCCAGTGAGGAGACTTCTCTGGTTTTTCAGAACACCTCTG
GCTGCCCCCTGCCACCCCATAGAAGGGCTATCCCTCCAGGTGAGGTTAGC
ATCATCACCTAGAGCCAACAAGTCAAGGAGGTGATGGTTTGCCTTTGACA
TCTCTACCCAGACCAGACTCCACTGAGAAGACTCTCCCTTTTTATCACT
GCCCTACCTAGTTAGTTGGTCTGCCCTGGGGCCAGAGTTTCACTAGTAG
TATAC

>Sequence 982

GGTACTTAGATCAGATGGATTGAAACATGACAGCCCCATTTTCATCTGGCC
GGTTAAGGTCCTCATGGAATGAAAAACACTTTCGGGCACTCTCCTATGAG
AGAGAGAAATGGGTTTCTTTAATTGCCAGATTGTCTGAACACAGCCTCAGC
TACTTCTAGGAATAAGACGAAGCAGTGAGGAAGTTGCCAGTTGAGTGATT
CTTGGGGAAAAAAATTAGCATTGAGTGCCAGCTCTCTAAAGTGTGGATTG
TGGATTCTGGTAGAAGCCAGTAAAGAAACGTTTTCTCTGGAGTGGAAGCT
AGTAAGATTTATTC

>Sequence 983

GGTACAGTGACATTTCAAGACATGGCCCAATGCACAAGCAACTTCCCAA
GCTGTAAATTCACGAGATTCTCAGGGTCTCTAAGCTCCTTGAGGGCAGA
AACTTATCTTTGTATTACAGCTAGCCTTCAATCAGTAGGTGTTGAGCTGA
TTTTCTTTTTCTTTTTAAACTCAGAAGTTAAGTTCCAGCTTCAGTGGCT
ATGCCCAGATGGTCTGATTCTGAAGGACAAGAGAATTCAGTGGCATAAGC
CCTGTGCTTGGCATGTAGTAAGTTCTCAGTAAACTTTAGCTGGCGGGATC
ACTGAC

>Sequence 984

ACTTTTAGTAAAGATGGGGTTTTGCCATGTTGGCTAGGCTGGTCTCGAAC
TCCTGACCTCAGGTGATCCACCCACTTCGGCCTCCCAAAGTGCTGAAATT
ACAGGTGTGAGCCACCGCGCTCCGGCCGAGGACACTATTTTTTTGCTTTGG
AAGAAATGAATCCTAGTTTTGGTTTCAGAACTGTCAACAGCATTGTGCCT
CTTCTATGACTACTAAATTTCAAGCAAAGAGAGCTGAGTTGGGGGTAAAA
GCAGGGCTATTCCCCGCCTTCAGACAATGCTGTCCCTTATCAGGGCAGAC
TGCTGTCTGGTTTCTGTCTCCAGCTCGGGCATG

>Sequence 985

GGTACTTACTTAATTTTTTTTTTTTTTTTATAGTAGAGATGAGGTTTCACC

273
Table 2

ATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCCAOCTGCC
TCAGCCTCCCAAAGTGTTGGGATTACAGGAGTGAGCCACCGCAGCCAGCC
TGTGTGTGTTTTTTTACTTAAAAATTTTTAAATTTAAATTTAAATGTTTA
ATTGACAAATAATTTTATATATGGGGTATAATGTGATGTTTTGATGTATA
CATTTGTTGTATACGTTGTAATTGTATACATTGTGTTGTATACATGGATGT
ATACATTGAAATTATTGTATCCAGAAAATTAACATATCCATCACCTCAC

>Sequence 986

GGTACATGGAATACATAATTTTGAATGGAGTCAGGGCTTTCCTAATGAT
CCATTTTGTAAATTCACCTAACAGCTGAGGAAAGGTCCAGAGAAGGAAGAA
CTCAAGGTTAGTAGACAAACTTGATATTGAGTTGCACTGGCTGCCTTCTC
TTTTTGGTCCCCTAAAGAGTATTTATCATCTTAGATTACAGCTTAAGTTGT
GGACAAATATCAAGGGGAAAAGTATTTACAGTTAACGTTGGAATCACACG
GTTTTCGNGGGTTGTGCCTCTTACCCTTCAACTTTGGTGGTTCTAAAGA
GGGACGATTATTAGTTGCTTCACTAAGGAGGGGAAGTTCATGATGGAGC
AACT

>Sequence 987

GGTACCTGGCCTAGAAAATATTTTTTTTTTTTGAATGGAGTCTCACTGTG
TCGCCCAGGCTGGAGTGCAATTGGCGCAAATCTTCGTCTCAAAAAAAAAA
AAAAACAAAAACAAAAATAAACTTTACTCAAATATCACTTTCTGTTAAATGT
TCTTAATTCCCTTCAATCATCCCCCTCTTCAACTCTCACAGCACTTTCTT
CCACTACGGCAGCATCACACGCCAACTACTCACCAGTTCACGTTTCCG
CCCTCTCTCCCACTTGCCCAATCACAGAGTTCCTAAAGAACCAGGACTAT
GTTCTACTAGTCTTTGTAGCCACTGCACTCGGAATGGTGTCTAGTACCTG
CCCGGGCGGCCG

>Sequence 988

ACTCCTGTTTCTACAAATTTATCTTATAATAATTTGTCAAATGTTGAGTG
CACAGATTTATTCAATTGCAGCATTTGTTTTTCATATCAAAAGATGGGAAA
CATTGTGCAAACAATGCCCATCAGTAGTGGAATGATTAAATAAATTAGGT
ATATCCAATAATTGAATATTATGCAAGTATATAAAAAATAAGAATCATGA
ATATGGAAAGATTTGAAATATATTGCTAAGATTAAGGAAAGGAAGGG
GCAGAAGAAAATAAGTTGGGTAAAAAAACCCAGAAATGTTTACTAATA
ATTATATTTAAAACTCATAGGATAAACAAGAAGGTAATGAAATAATTAA
T

>Sequence 989

CCCTTATCTTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTT
TTTGGTAGAGACAGGGTCTCACACTTTGTTGCCAGGGCTGGTCTCGAATT
CCCGGGACTCAAGCAATCCTCCCGTGTTAGCCTCCCAAATTGCTAGGGTT
ATAGGTGTGAGCCACCCTGCCAGCCTATGTTTATTTTCAGATGTTCAAAA
CAACAAACAAAAATAACACACTAGAAAAAATGATCAGAGAATACGTGTTA
AATGAGAAATAGTTCAGGGCTTTTATAAATTTGTGACCTTCACCCTTCCC
CTTAGTCCTTTTCTCCATAAACTCTAATTACAAATTTTCTTCCACAGC
AAAAAGAGGAATACATTCTTCTGAA

>Sequence 990

GGTACCTGTGATTGTCTGTGTTGAGACTATTACAGAGCTCCAAAAATTAA
AATAAAAAATAAATTTTACAGAAATACATATTTGCATTGGAATATTTAA
GAAAGTTGAGTTTGGATGCCACAAGATTATTGGAGTAATAGGAAGCTGTG
CACAGTGGCTCACACCTGTAATCCTAGCACTTTGGGAGGTTGAGGCAGTG
AGGCATTAGGATTGTTGGAGCCTTGGAGTTTGTGACCTGCCTGGGCAAA
CACAGGGAGAATCCTGTCTTCTTCATTAAAGTAAAAATTATAAATGGAATT
TAGCTGGTTGGTGGCTTGTGTGACAATTTTTTGGTAATGCTTTGGTGTA
CCTTGTA

>Sequence 991

CCCTTAGCGTGGTCGCGGCCGCGGTACCCTAAAACTTAAAGTATAATAAT
AATAAAATTAAAAAACAAAAACAAAGATTAACAGAAAACAAAAACA
AAAAAACTCCAGCATATACATTGAGTCATTGCAAGTTTGGGAGGGGGG
GAAATGCTTTTTTGTATTAGGAGAAAGGGAAGTTTTCATTTTAAATGTCT

Table 2

ATATTACTTAAAGTTTGCAATAAATATTTATTACTTTCAACAGTGAAAAA
AATTACAAGAGAGAAATATGAAATAGCACAGTAATACAGACTATAGTAATG
CTAGAGAACATAATGAAAAACAAAGAAAATATGGGGGGGAAAAATAGCTTA
AATCCTAATCCAAA

>Sequence 992

TTTATACGTATATATGTGATTGATGAATTATGGTATTAGCTGTGTTAGTA
GTTTATGTGTAGTTATTAATGAAATTGAGGTTGAGATTGTTGAGGAATAT
AGAGTTTATTTGAGGTTAGAAGTTATCATTAGGATCTACGCGTAAGACG
TGTTTTGCGACCCG

>Sequence 993

CCCTTTGAGCGGCCGCCGGGCAGGTACCCCATCAGAGTGTTCCTCTTGG
CTTTCCTGTATGTAAACCTTACTAATACTTTTCAGTCACCAACCTTCTGT
GTCAATTCCTTTTAAGCAAAAAGGAGAAGTAAAGTGGAATTTGGGTTTCA
AGAGCCATGCTTTTGGCTTTTTCACAAAGAGAGTTGCTCTTAATAAGGCG
CCTGGGTGTAGTTTCCAAACACCTTTATTTTCTACTTGACTGTCCTGGA
TATGTTGGCCTTTGAAAGTTGGTTTAATTTTAGTAGAGGAAGAGGTGTTG
GACTTTGGAGTAGTGTAATGTTTACCCCTTTTGGCCCGTTGGAACCACT
GCCTTATGGGGCCGAATATTTCCCAGACCACAACCTGGGTGCGGGACTCGT
TTAACTTAGTTGTGATTCCCTGTGGCATTGGGGTTACCCCAAAGCTTTT
GTCCCGT

>Sequence 994

GGTACCAAAGTTGTCTCAAACCTTTCATGTTTGTGTATACAAATCAGCTGA
GGCCTTCACTAAACTACAGATTCCATGGCCTGGCCCTCAGAGATTTTGAC
TCAACAGGTCTGAGTTGGGACTAGAAATATGCATTGCTAATAGGCACCCT
GACAAATCCGATGTAGGTGGTCCTTAGAACATATTTGAGAAATATATTC
TGAGTCTGGCAGATAAAGAATTCTTAACAAGGAGGTCTGCCCGGCGG
CCGCTCGAAAG

>Sequence 995

GGTACCATCATCTGTTTCCCTCTGGTTATAAATCTTTAATGAAAACGGAT
TTAAAAAGTCACATTATGATGCTCGAAGCTCTGACCTCTCATCACAATGA
GAAGCAAAAGACATGCCATAAAGATGATATTTCCACAGGAACGATATTA
GAATTATGTGATGCAATCTCATCCAAGGTCATGGTATCAAACCAGACACA
GCTAANAATGTATCATAATAGCAAGGATACAGTAGCAAGGATGGGCCTCA
ATAAACATTTAAAGTGAAAAAATCTTCTCTAACTCATATCAAGTACCTG
CCCGGGCGGCC

>Sequence 996

ACCAAAATAGATAAGGATCCTGTTTTTTGAAATGAACCCAGTTGCGCCT
TAGGCATTGTGAGTTGGCTCATTTCAAGCCAGTTGTAATATGGTTTTTA
TTCTCTAAATTTTCGGGACCTGATGCTAAGGAATGTGAATATACAGTTAGG
TTCTGCGAACCTGTGTTGGTTCAAAAAGGCTGGTGGAGGGAAATTTAT
GACACTAAATGCTTATATTAGAAAAGAGAAAAATTGGCCGAGCACGGTGG
CTCATGCCTGTAATCCCAGCATTTTGGGAGGCCGAGCCAGGTGGATC

>Sequence 997

GGTACTTGGAACAATAGCTACAAAGGATAGGATACTCAATTGCAAGTAG
ACTTTTAAAAATAAATTCACTTACTTCTATTCCCAACTCAATCTAGAATAT
TATTGGTGATAGTGAAAAGACCAGACAGATGACATTACTTCCAAATTTTA
CCAATCTAATTGTTTTTACTCACACCTGTAGATGTCACTTTAAAAATGTG
AATATTAATTTCTTCAAAACTACTCCAATTTAAGTAATGAGTTAGAGCTT
TGGCAACCATTAAAGCTCTCTGTTCCCAACTCTAACAATATGTGGTAATG
TCTTCCCTGACTTCAATTTTATGTTTACACAAAATCAAAGTTATATTTAA
GGTTTTCTACATTTTTTTGGATATTTACCTCCTTGTAATTTAGTTTTATA
TGCTGTATTACAAAACATATTATATTCAAGAATTTTAACTTAGAGT
AGAAAGTGAATTACAGTTGGAAGATTATTAATTAGCCATTAGAAACCT
TCCAAAGTGTCCATAAAAGGATATATTTTATCTGAATGGTCTATATACTA
TAGAGACAAATATTTAGGAAACAGGCCCATGGAGTTTGGGCACATTTTAA
AATCCAAAAAGGGGAAGTCAAAAAGAACTGCTGAGTAACCCACAGAATG

Table 2

TCTAGGGTGATTTCCCTGAATGCTGCAAAATTCAACATCTATTACATGG
GTTTAAACAATTTTCGAGCTTCTTTAACTCGAAAAAT
>Sequence 998
GGTACGTGTTTTACTTGGTGCTGTAGGTAATGCTAATTCATGATAAAATTT
TGAGAACCCTCTAGGGTAGTATGTTTCCAACAGTTTAGGTCATGAGCAA
CCTTGAGAAATACACTTTTAATCATGACTCAGCACACACACTCACATGCA
CGTGTGACTTAGACGTTCCATGAAACAATGCTTATCTTACAGTGTGTTTT
CTGCTCTGGTATTTTACTTATATTCTATTAATAGATATGTGTGTATAA
ACTTATTGATATAAAAATGTGGTCATGATCCACTAAAGTGATTTTACAAG
CCACTAATGGG
>Sequence 999
GGTACTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTCCACTTGGGTCTCCTTTTTTATTATTCGGCAA
AATGATAAAAAACCTAAAGCCTGTTTATATAGGGTTTTTCATGGCTAGAGTT
GTATAAACTGCATTTTGTGAGTTGAATAAGCCCATTTGAATGAGTCAA
ATTTTTTAAAGCCTCGAGATCCAACAAAGCTGGAAAAAAGTAGGGGTGG
GGGTAAATGGTTCATTTGAGATGTTGGCCTTCAGTACCATGAGAGGGAA
AGCAGAACAAATGGGN
>Sequence 1000
ACTAACTGAATATTTATTTAAAAAAGCATTAAATTTATCTATCTATATAAC
TAAATCTATCAAATATTTCTTAAAAACACGAACCAAAGTTAATCTGAAACT
CTTCCTGTGAAAAAAGTCATGTATTATATGCCTTCAACACAGAAATTTGTC
ATTATTTCTGTGGCATTATACTATGCCCTTTGTGTCATATGCTTTTTTCC
CATAGAGCATTTTTTCCCATAGAACTTTGTATTCTCCACTTCTACCACC
TTCTTTGAAGAACTCTTATTTACCATTTCTTGGACTAAATTAGGAAA
>Sequence 1001
GGTACCCAGAATATGGTATATCTCTTCATTTATTTAGCTCTTTTTAAATT
TGTTTTGGTAATATTCTGTGATTTTTTTTTTTTTTTTTTTGGTATGGAGGTC
TTACATCTTTGTAAAAATTTATTCCTAATACTTTGGATTTTGACATTATC
ATAAAAGAAATTTATTTCACTGACTTTTCCAGTTTGCTGCTGGCCTAAAC
ATATCAGTAATTTTTATATTTTAATCTTGTATCCTATGACTTTGCTAAA
TTCATATATTAATAGTTGCTCCATAGATTCTTAAGATGGCAGACACAG
CTGTTTG
>Sequence 1002
ACTACTTGGCATTAAATTAGATTGTGATCATAAGTCAAAATGTCATTGGTT
ATAAAGTGGTCATCAGACCATGCAGACTATTACTAATATTGGTTATGTTT
TAGTTTATTGCAGTGAAAATACAAAATTTAAAAGTTATTGTAGAGAATTA
TCATACCCCCCAAAAAGTGTCATTGGTCCTCCAGGACTCTGTAGTCCCCA
TCCAAGAAAGACTGTGATAATTGTCAAGGGGTTAGTATGGTCTGAGCATG
GTTGATGGTGCTCTGTCAATTCTGGTATTAAACAACCTGCCAAATGTCTTG
ATTACATGTCCTAAAAAAGTGAGGGGAAGAGTGTAGGACAAATGCAAAAT
AAAATAACACATTTAGCTATACTTTTAGTATTTTTTATTATTGAGATTCA
ATATTTAAGTGACCGATTCAAGAATCTTTTATATAAAAAATGAATATATG
CATAAGTAACTGTGATAAGAACTGTGGATGGATAAGAACACTTTTTTGAT
GTA
>Sequence 1003
CCCTTAGCGTGGTCTCGGCCGAGGTACATCTGTTTCTGAAAGCATTTTTTC
ACTGAACCAATTTTCTATACCTTTTTCTTGTATTCTTTTCTTAGCTTTT
GTTTATATGGTTGCTATATTTTCAAGCCTCATACCAGTCATATAAAACC
ATGATAAACTTCATCAAAGCATACTTGGGCAAAATTTCAATTATCAAGTA
AAATTGTAAAGAAAAATTTTTACTAGTTTGGAAATAGATCTACATGTTT
GATTTCTTTCTTCTCCTCCTTTGTTTCTTGTCTTTCTCTCCCTTT
CCTAAAAAGTTAATGGCTATCATTATCTTCACCAAATTAGTGTTTGTATA
CCCATAAAAATGTCAC
>Sequence 1004
GGTACTCTGAACTTAAAAGTTGAACAACAAAAAAGAAGGAAAATGCGT

Table 2

TAATACCTTATTGTAATTATTATTTTTTGAAGACTATTTTTATATTCA
GAAGAAGTGTGAGAGTCAGCAGAAAAGGGATTATTTCTCCATTTACCTACA
ACAAATGGTTTTAAATGACTGGATAGATAGAAATCTCTTCAACTTAACTG
CTTAGCACATTGCATTTTTCTCTGTTTCAAGTTAGTTTTCCAAAGGATTA
CTGACTTTTTACCTAATTGCTAAGGGATGTCAGGCCTTAATGACATATT
TCTCCTCAAATAAAGATACAACATGCTTTTACTGTGTAGGAG
>Sequence 1005
GGTACTTCGGTATTACAGCGCCACCCACTGGCTAGAAGTCCTCATAGCAC
ATATGAGATGTAGCCATAAAATAGATGAATTCTTGAATAAGGAATATAA
CACTGACTATTCTGATTCAGTAGAACATAAAAAATGTCTAACAAAACAGG
AACCTAGACACATTTATATTATTTTCTACAAGTAAACAGAATATCTATTA
GATATGTTTACAAGGGTTTTATCAATTTTGAAATCCAAGTGGATAATCCC
CAAATGCTGTAAGGACTTAGATTTTATAGCCAAAACAATTAACACATAAA
ATGCTATTACATATTTGG
>Sequence 1006
ACATAGTTCTGCTTGCATTGGTCCCATTAACAATCCTGTCTAAATCCTGAA
GTAAAAATGAATACCATAGTGAAGAAATTACTTGTGCATGTGAAAGAGGC
TGGTCCAACCTCTTAATTGCAACAGGGATTTGATTCTTCTACTAGTAGTT
AGGAAAGGTTGCATTAAATTCAGTAGTTAAAATGTGCGATTCTAAATTT
TTTGTAATTTCCCATGAGAGAATAAATTTTTTCAAAAATATTCCCAGTAG
GTGAATGGCTTTAATACATGGTATCTGTGAAGATGGCAAAATAAATGACT
>Sequence 1007
GCGCACTTAGCGTGGTCGAGGGCGAGGTACATCTAAAAGGTGATGCTAAT
ACTTTAAAATGTTTAAAGATATAGATTTAAAAAGCATTGTAAATTGTATAC
TGCAGTGTCTGCTACATGGCATTGGACAGGACATAATGTAAAACATAAAA
GTGCAAGTTGTTACACTTACATATGATAGTTGAATGGCAAACGTGACCAA
ATTTTTGTACTCAAGTGTAATAACCCAAAAGACTATTACAGGTGGTCT
AACTGGGATTTTATGTTCTAATATGGACAAATTTCTTTGATTACTTGCAAT
TCCACCAACAATTAAGTGGGCGGTGCTTTTTTTGCTTTATGCCTTTTTGG
TTGTGCCTTTTTGGGGTGGTCTGCCCTAATTAATACCGTTCCCGCTGG
CTTTTTGGGCTTGGGGTCTG
>Sequence 1008
GGTACACTGGCTCACCTCTCAGGGCTTTGCTCCTTGGGAGGCTATTCAAG
CTCAGCATCACCTGTCTCACATCTGTCTGGGATCCTCAAACCTGACCTTT
GTAAATTTCCACTAACTGAAGATTGTAGAGGAAAAAAAAAACATCTTAT
CGAATTCCTGCTCTTATAGCTGATTTTAGCTATTAGGAAAACATCCCAAG
TTGAGCTTTTCTATTCTAGAAATTTAGATTTCTTTCTTTTAAAAATT
TTATCTCCTTTTATAGTAGTAAAAATATTTTCTTTTTTTTGAATGGA
GGTCTTAAGCTCAGTGTCAAAAATAAAATCATTTTA
>Sequence 1009
ACCTTCTTGCCTACAGCGTTTAGCTCCGTTTGTGTTTGCATAAAGATCTGT
TTTCTGACTTCGCATGAGGGGTAGTATGTTTCACTTATTCTCACTATGTA
AATTACTTAGTAAATAATAGGAAGAGATGTTGAAATACAACTTTCTGCC
ACCAGACCTTCACTCTATTGCAGTCATTTTCTCCCACTCTCCCCCTCTC
TCCCACTTCTCTGAGGATTACCTTCCCTCTCTCAGCATTCCTCTGTCA
GTGGCTTTTTTTTCTTTGGCATGCAAACATGCTCAAGTCTGTCTTATA
AAAAATAAAAAAAAAAATTTATTTGTACCTCGGCCGGGACCACGCTAAGGG
>Sequence 1010
CCCTTAGCGTGGTCGCTTTCGAGGTACTCTTTTCAGATGAAAGTGTTCGG
TCACCTGGAACCTGTGAGTATGTGGTTTTTGATCTGTGACTAACTGTCA
CCCATTTCCTCAGTTCTCTGCTCCGTCAAATATCAACATTTTACCAGGTT
TCTCTGTTGTTGCCAAACCTGTCAATTTTATTTGGTGTGGCTTCTGGGA
AACTTCCATGGCCCCATTTGATGGGAATCAAACAGTGAAAACAAGGACAGA
TGCAACAGAGGTGGCATCAGGAACAAATGGGTCATAAGAACTTACCTTGG
CAGCAGCCCCAGAATGGTCAGGAGGAAAGGCACTCTAAGGTATCAGAAGG
TAGAAAGGAGAGGTTGGATGATAGAATGGGGAATGGATTCTCTCTCGCGT

Tabl 2

TCACAGAAATGAATTAATGGGAGACACAAGGGTACCACTTAATATTCCTG
CTCTCCCTAGCATGGGTCAGGGTCACTGCCCGGCGGCCGCTTTAAAGGGC
C

>Sequence 1011

CCCTTTTCGTGGTGCCTGCCGAGGTACTGAGACACTGGATCCTAAGAAAA
TCAGAGTTATAGCTAGTGGCAGTTATCAAGGGAATGCAGAGGTTTCTGTA
TTCTGAGCATGTTCTGTAAATAGGATAGATAGGCGATGTGGCAGCAACAA
CTCCCAATTCGTAATGTCTTAAAAACAAAAACAAGTTTTATTTCCATTTA
TGCCATGTTTCCAGCACAGTTTCTCAGAGGGCTGTGCTCCATGCATTTAC
TCAAGGTCTGGGAATGATCATGGCTACACTATCTTGCAGCCACCATATTT
GGAACCTGTTGCCACTCTGATGGCAGCAGAAAAACAAAAGAAACCCAAAGA
TCATGTATGAGCTATTCAGTCTCCAGCCCAATAGTGGTTCACTTTTAC
TGACCAGAACTAGTCTTCCAGCTCCACCAAACTNCACGGAAGTTTCAGGA
GCCCCAGAGGAGAGGAAAAACAACCTGGGCCCGCTACCTTGCCCGGCGG
GCGCTCGAAAGGGC

>Sequence 1012

CCCTTTTCGAGCGGCCGCTCTGGCAGGTACGGGCTTTTTTGTCTTGTCGA
GTAACAGTGAGGGCATGATTAGCCATCTTTGCCAGCTGATGTCTTGTTGA
CACTGCGCTTGTTACCACTCTAACAGGCCCGTGTGAGCAGCTCCGCTTCC
TCCTGACAAGCTGCGAGCACAGGGGACAGCACAATCTGAAACTCTTACAG
ATACCAACAGCAACAAAAATGAAAGCAGTTATGGTGGGCAAGCATTAATC
TAAATTTTTTTTAAAGGA

>Sequence 1013

ACGCGGGGGGTCTCACCATGTTGGCCAGGCGGTCTCAAATTCCTGACCT
CAAGTGATCCTCCCCCGTCAGCCTCCCCAAAGTGCCAGGATTATAAGCAG
GAGCCACCGCGCCAGCCTATTTTGTCTTAAATTTTTTGTCTTTTTCAG
TCACCACAATTCACCATGCATAAATCACAACGGTTAACAATTTAGCATC
TTTGCTTCTTTTCTGTGCACTTACGTTTTATGTAGCCAAGATCACAC
GTTGCATTTTGCTGCTTTTCTTAACAGCGTCTAAGTCATCAGCACTCTAT
TGTGATGATTTATCTTAAAAATATTCGAAGCGATCATTTTGTAGTAAGTGT
GTAATATTATATCATAAAGTTAAACATAATTTGTCAATTCAATTGTTGAA
ATTTTTAGGTTACGTATATTTCTCTTATAAATATGTAAATATGTTTATA
AAAAGTTATATACAGTTTTTTATAAATCTTTGTGCATACTTTATACTGTT
TCCTTAGCATAGAGACTGTGGAATAGGATTCTTGAAAAAAGGTAAAGT
GTGAGTATGCATATATACTGGTACATATATGTTATTATTATAAAGGTAAT
AATCTTTTTTTTTTTGGAGATAGAATCTAACTGCACCTCAACCTGTGTAAG
AGTGAGACCCTGTCTCAACCAACCAGAAAAAAGAACTTCAATTAAAAAT
TAACCTTGGGGTTAATAAATATTTGTGAAATGTTTGGTGATCAGTATATA
CCTATAGCC

>Sequence 1014

ACTTATTCAGACAAGAGTTCTGACTCTCATGCTTGAGGATAAGATTATAC
ATTTCACTATTACATTGAAGATATTTCAATTTTAAACCAGACTAACTTAGT
ATATTGTTATTTTTAATGTGACCAAGAAATATTTTCATAGAAGCTAATG
CTGAGTCTTTTGATAATTTGCCGTATCTTAGTCAATCCCCAAAAATTTAT
TTTCTACTATTTACATATTATCCTAGTGGATATTACATTACTTACTGAAG
CCTTTGGTTCTATGTTTCATCTACTCAGACTTAATTCAGGAAGAGCTTCA
TCCAGATGTTTTGTTTATTTGTTTCTCGATTACATGTATGAGATTTTCA
ATTATGAGATCATAGGTCAAGTGAAAGGTACAGTTGAGAGGTCAAGTA
AGAAGCTAAAAATTTGTGAAACCAAGAAATGACAGGACAGTGCCAAATGA
AAGGTCAAAAGTCAAGTGACAGACTCAGTACC

>Sequence 1015

ACGCGGGGAGAACCACTGACAACTGTCAAATTTATTGTAGTTAGCCAGTGAA
TTTCATTTTTGAATTTTTCTTTCTTTGAGACAGGGTCTTGCTGTTGCT
CAGGATGGTCTCGAACTCCTGAGCTCAAGCAATTTGCCGGAGCTCAAGTC
TCAGCCTCCCAAGTGCTGGGATTACATGAGCCATCGCACTCTGCTGTTT
CTGAATTTTTTAAACAAATAAATATCAAGCAATCAGATGCCAAANATTAC

Table 2

AAAGAAAATCAGTATCAAAAATTTGGAGTTTGAGGCCAGGCACGGTGGCT
CAGGCCTATAATCCCAGCACTTTGAGAAGCTGAGGCGGGCAGATCACGAG
GTCAGGAAATCGAGACCATCCTGGCTAGCACGGTGAAACCCCGTCTCTAC
TAAAAGTACCTCGGCCGCGACCACGCTA

>Sequence 1016

GGTACTATTATAATAAGTTAACATATTTCCCCTATATGCGGAAAATGCTG
ACTATATCTTTTGGTTGCTTTGGAACACTATCTCCTCACAACAGTCCTTG
TCTACAGAAATGGGAAAGGGAAGGACACATTTTGGTTTCTGCAACATGGC
AACATTCGTAAAAACCAGAAATGATGTGTGACAAGAACTAAAGAAGTGGG
CGAAATTCACCTCCATTCACCCTGGTTAAAGCTTCCTTGAATCAGAGATA
AGAAAACAACATGAAAAATCTATTCCTTTTAGAAAAACAAGCTTTTAACCCA
GAGGTTGGTTTATTTTGAAGGAATTAGACTCTGGGCCCACATACCGCT
CGTTCAAAATATAATGCTGTGGTTTCAACTCCTGCTAAATGTTGCTGTGA
CTTTTAAGCAGAGAACTTCTAAAAGGAAGTAACCTAGGGAGGGGCTGATA
TAACTCAGACATCAATAATTCATTTTATTGGAATAGGAGTAGTAGTATG
AAATGCTAGCAGACTGTTTCATTTGCAGGGAGGCATTTTCTAATTAAAGC
CTAGAACAATGCAGTCAGCTTTATTTGGCAAGCTAATATGAATGGAGGCA
AAGCTGAATCGAAGGAATGGTTTTATGATCTCCTCTAATCACGCTATTC
TTAGCATCAGTTATTTAAGTCTGACTTACCCACCTTTTGGGACCTTGGC
AAAGTGACGAGAAAAAGGATTTTATAACTTTGTACCTGCCCCGCGGGCG
GTCGAAAGT

>Sequence 1017

GGTACAATTCAACTATCATTCTGGTTGCGGTGGAAGATGGAGACTGGCTA
TAAGGTAGAAATATGGTTTGGGGTCTTGGATATAGTCATGGGTTGCTTTG
AAGGACTGGTGACAAAGTTTGGACTTTACCTTGACAGACAGTGGGGAGCCA
TTGAAGATTTTTTTGAGCAGGAGTGCAGGAATCAAAGCAAATTAATTTA
AAAAAATTTAAATTAAGGCTAGCAGGATTCAGTTTTCAAACTGGCCAGCT
GTGGACTAAAATCCAGCCTACAGATACATCTTGTTTGACCAGCAGAGAGGC
TTCAAAGTCTTCAATACATTGCCAACACTTAAAAATGAGAAGATTAAATA
TAAATTTCAAGTTTCCATCATCTTTTAAATATTAGGAGTTCCAGCAAT
GCCGGGCGCTTTCCCCCGCATGATCACTGAGCTGGATCTCATGTTTAAAG
CAAGCTGTGCTCCCCGCTGCAGCTCTCTCGGTTCTCTTTCTTTTACCTA
CTGACCCCCATGCATTNNTAAAGATTTTTTAATTTTATGGATACATA
ATACTTGGACCTGCCCGGGCGCTCGAAAGGCGAATTCAGCCACTGG
CCGGCGTACTAGTGGT

>Sequence 1018

CCCTTGAGCGGCCCGCCGGGCAGGTACGCGGGTCCCTTATTTTCTGGTGT
TTACTTGGGATGCATCAGTGAACAAAACAAAGGTATCTGTCTTATGAAA
TTTATATCATAGCAGAGGAAGACTGGAATGAATAAATAAATAAAGAATG
GAGTTTGTGGAAGGTAATAAGTTCTGTGGAACAAGGAAAACCAAGGCA
TGGAGGTTTGGAGTGCTAAAGTGAAGGTGTGAGAACAGATTGCTCTTGCT
CAG

>Sequence 1019

ACTTAGTTACTCCTTGCCCATAGACGTGTTTGACCTAGAAAAATTTCTTA
TACGCAACAGATATTCATGAAATATATATTAATAAAGCTTGAAGGGTG
AATTAAATAAATATTTACTTGAAGCTACAGTGGGTGAATTAACAAATA
TTTACTTGAAGCTACTTTATAGCCACTGGGCTGGATTTTATATACAGAG
TTCTTGCCCTTGGGAGTTTACAACCTGCTTAACACTTTGTCTATGCTAGA
ATACATAAAAAAAAAAAAAAAAAAAGTACCTGGGCCGCGACCACGCT
TAGGG

>Sequence 1020

GGTACCTAATGCTTTCAGCCCAGGAGCAGAAAGAGAAGTGGGCTCTTTC
TTTGAGAGTCTCTGAAAATTATTCAATACCCTGGGACAAATTAAATGAGG
TAGATCCTTCTTTGAATTTGTTAATAAAGCATGCTTGTCTTGTCTCCATA
AAACAGGCTTTGACCATTAAAGGTTTATTTTAAATGGGTAAATTTTATT
GTAATACACTAATTTTAAGAAAAGAATTAACCTCATGGCTTAAAGCAAAA

Table 2

ACCAGACCTTGGATTTCACCCATAACTTTAAGGCTGGTCATTTTAACCCCT
GATTTGACACACTCTTATTATGGTGTCTTTTCTCCTTATTTGGCTAAATA
TTTCTGACCATCATAGCAATCTTTTCTATAAAGGAAGCAGGCAAGAGAGC
TAGAGTGAAAATGTTAAAAACAAAACAAAAAGACAGCATACTGGCTACC
AGTTTTTCTTAATTAAGATGATCTGTTTTCGCAATTGCGTAAATTAGAAT
AAAATGTTATTTAACTCAAGGATATTTCTTCACTGAAAGAAAACCTACTT
CTACATGTAAACCTGCCATATACTTTTCAATTAAGCAATGGATCAAAAG
TTCTGAAAATGA
>Sequence 1021
ACTTACAGTCTTAAGATATCCATACACCCCCACATCCGTCCTTTGTGCGA
GAAGATTACTGAAAATTTAATTCCATTTATGTCAATTGGATTGTAAAAAA
CCCCTTCTGGATTCAAAGATGAAGGCCCTCACTTACTTTATTTTGTCAAT
TTCACAGACCCCTTATGTAAATGCCTCAAGAGTAAGAATCTTGCTCAAGT
GATTTTGTATCTCCAATGGCTAACAAGGAGCCTGACATAGAGTAGCTGC
TTGGTAAATATGTGTTCAATTCACAAATACCCCCAAGGTAACCTTG
GCCGGGACCACGCTAAGGG
>Sequence 1022
GGTACCGTGTGGGCCACTAATACATAAGCATCTGTGTTGGCTGGGGGTAG
GTGTAGGGGGTGTGGGGAGAGATTTAAACAAACCCCTTCTCTACTTG
CAACATCTCTTAAAAGCTTGTCAATGTTACTTCTATTTCTTTAGAGT
TCATTTGTTTAAAGACGGAACGTCCTCATCTGTTCTGCTTTTCTGCAAT
TCTTTGTAACTTAATATTCTAATTAGCCCCAACACGGAAAAGAATGTAA
CACAACGTCTTAGTTGTGCCATAGAGTTAGAATCTATCTATTAACATGT
TTAGTAATAACAAGAGAAATAATAAAAAACACACCTATTATGAGACGCTG
CCCATGCCAATAAATTTGAAACATTACCAGGAATATAAAGGAAGGAAGGA
AACAGGTGGAGACACTCACAACAACAACAAAAGGTAGGAAAAATAAATA
GGAGAAAGGAATGGAGGTTAGAAGGAAGAAAGAGAANAAGGAGGAGGGGG
GCTCAAGGAAGTGTGGAACAAGTGTATAGCTTACCTCATATTTAATC
TTGTCACTTCATAATCCTGCCTTACTAATGCAGAGAGAGAAAAATTTCC
TTCTGCTTAAAAAGTTGTGAATGACTTGGAATGGGGTTACCAATATTTT
CGCTAATAAAAATTAATTGGAAGCATTGAATTTTACATAGTAAGGATA
TTGCCACGCCCAGGGTTAAGCCTGTGTCCCGCCTTTGGAGGCCAAACCGG
AGATTGTAAACCCAGAGTTCAAAACAACCTTGAACATGAAAACCCCTT
>Sequence 1023
ACATATATTTCAAAACAACATTTTCTAAATTAATTAATGTTTTCACTCATA
ATTATGTGTTCTTCCCACTTCTATATTCTCTATTTGGGGAAATAATCCA
TCAACCACCCAACGGCCCAAAACCAGGAACCTGAAACTAACCATATTTCCC
TCCCATTCACATAAATTAACCTTCTAATCCTACCTACTTATCTTTGAATC
CACTCTTCTATTTGCAGTGGCAATACTTAGGGCTTCTTACTTTTACCA
GGACTATTACTAGAGCTTCTAAATGCTTTCTATCTGTAGGCTTACTCTT
CTGCATTCTATTTTCTCAAAAACACCAGAGGTAATTGTTCCCAAACCTGC
ATATTCTGATCATTGTCAACTTCCATACTTAAATCTCTATAATAGCTCC
CCATAGTACCTCGGGTCGGGACCACGCTAAAGGCGAAT
>Sequence 1024
GGTACCCACAATGGAAGATGATCTTCCTGCATTGTGAAGGTTGTTCTCA
TCAACCAAGCCTGCAATGACTAGACATTCTAAAGAGAAGAGTGATGGCAA
TGGAAGAGGACACATCCGCTTGCCAGGTCACCTTCTATCAGTTGATGACA
TGCCATATGTTATGGCTAGGTCAGCTTCCACAAGTATGCACATGCAAAA
TAGAACTTGGGAAAAAATCTTTGATTTGGCCCTTTACCAAGTGGATCAG
TGTGTCAGAGTTCAGTTGAGCAAAGGTCAGAGTTAAGTTGAATCTCCAG
TCACTCTTTTGAACATATTTGGTGATGCCAAATTAATATAGGATATTAT
GTAGGTAAGTATTCTGTACAGGCATTTATAGGGTGAATATACAAGATGTA
GCCTGAGTCCGAAAAGAACTGGCCCCCTGGCCAGACTATGCACCAAGCGG
GTCTGAACATATACAAGTATGTGAAAGAAAGACAGATGGCGACGTACA
TAGCTCCTGAATAACATTTATTGACATGTGAGCTGGTTGGTTGAATAAAA
TGAATTTGGCTTAATAAGCGTTTCATTN

Tabl 2

>Sequence 1025

GGTACTTGTTTCTCCCTTCGGACCACTCTCCCCACTAGACAGCTGTATG
GCCGGCTCCCTCACTCTCCTCAGGTCTATCAGAGGGTGGCCACTGACCTC
ATTGTCTCAAACATTATATAGAACACACACGCCACCCATGCACGCACACCG
TCGTTCTTCATCCGCCTGGTTCCGTGCACTATTCCAGGACCTACAGCAGT
GCCTAGAACACAGAACATCCATTAGCAACATTTGTTTAATGAATTTATAG
TGCCTAAACCTGCACAACTCTGACTTTGCCTTGCTATTAGAAAATGCAAG
GCCAGGCGCGGTGGCTCACACCTGTAATCCCAGCACTTTGAGAGGCCGAG
GTGGGCGGATCACTTGAGGTCAGGAGTTCAAGACAAGCCTGGCCAACATG
GCGAAACCTATTCTTTACTAAAAATACAAAAATAACCTAGGGCTGATGGC
ATGTGCCTATAATCCCAGCTACTAATAGAGGGTGAGGCAGGAGAATCCCT
TGAATCCCGCGTGGCAGAGGTTGGCAGGAGCCACAACACACTACTGCACT
CCAGCCTGGGCACACAGCAAGACTTCTGG

>Sequence 1026

GGTACTGAGGCTAATGGTCTTAGTTGGGATAAGGAGAGTGGGGAAGGGGC
AGGGGGAGATGATGAAATTCATTTATCCTCTGTGATGCTATGGAAGAACA
ATTAAGATCATGTTTCCTACTTGATTTTAGTTGCTAGTCATTTCTTAATC
TAAGCACCCCTATAATTTACCTATGTCATCATGCAAAATCACCATCGGT
AATAATGTGGGGCGGGGAAGTCTATACAAGAATATTAAGGCCCTGTGC
GTGAGCATGTCTATAGTTAAAGACTTAATGAGAAAGCATCAAATTTGGGT
GCAAAACAGCTGAAAGTAGAAGTAAATCACAACGTAATAAGATGCAACTTT
GGAGGAGCTCAAAGCAACAGATACGTTTTATCCAAAAGGAGTAAAGA
AAAAAATCGTCAACGGCAGTTCCTTCAGATAATCAACTGATGATTTTCAAT
TGAAACCATAATTAAGTAGCGTTGTTTGTAAAATAACTTTTTTCCATTTA
TACTTTTTAATGTTTATTACATTACTTTTCTCTATATATTTGCACATAAG
ATGTCTTAATGTGTAAGTGGTATAT

>Sequence 1027

GGTACTAATTCTTTTCTCTTCTCCTAGACCGATTCTAGTTTGTGCTTC
CCTTTCCTCGGAAACCCCAAGTTTGTGGATGCTGCAGACACTCTGTGCCC
CCTGCATGCTGGGTGCCTGGCCAGCTGCCAGGGCATAAAGACAGAGACG
ATGTGGCCTTTGTCTTAAGAATGAGGTTTGAAAGCCCCAGTTCTTCCAT
GTTAGGTGATTTCTTGCAGCTCTTGGTATCTGCAGAATTAGTGTGAATGC
TTAAAAAATATTAACAGCTTTATATCATGAAAGTTTNAACATGTACCTGC
CCGGGCGGACGCTAGAAAGGG

>Sequence 1028

GGTACTATGGGTGTAGTGTTACTATTACAGTTAATCCGTCCTTTGTGTGA
GCTGTAAATGCAGTGAGGATTGGAGCACTGTCCACTGAATCTCTGTGCA
ACAACCTAATGGTGTGGCAGGGGTATCCGGTGTCTGGCTCTGATCTTGGT
CGCTGGATAGTCGACTGTGTGTCTTTGTTGCCCAAGGCGACAGCTTTGGT
ATGGGTGCGGGCGGATTGATTGGCCAAGATGCTGCTAGTAATTTCAAGGAG
AGAATACTTCGGTTGCTGCTAGAAGATCAGCCATGGTAGTTTATGGTTTC
TGAGAACAGAGGGTGCACACAATGTCTAGTGTGCCATGAACGGTTTTGT
ATAGTACCTGCCGAGGTGGCCGCTCGAAGGGCAAATTCAATAACGCTGGC
GGCCTGTATTATTAGTATTAGGTTATGTACCAATCGTGGCGTTGATGAT
GGTCATGCTCTGTTGGCTAGGAGAACATTGGATATAGTTAGGAGTGGTCG
CAAGATTTAGGCGTGGAGCATAGAGAGTAAAGAGTGGAGGGCTGACTGAG
AGGGAAAAATTTAGTGATTTGGGTTAGGCTGT

>Sequence 1029

ACTTAAACATTTNAGACTCACTGTGTAGCCTTCTTGAATCGGGAATTCG
CTTAATGCTGTCCGTGAAAAAATAGCCTTTAACATCTGTTTGATTGAGAT
TTGTGATACATAGAAGTTGGGAGGAAGATGTGGAAGCCCTAAGAGAGCT
ACTTGCCAAACCCACCATCAGGTCTGCCTCAGTGTTCCTAGTCAGGACAG
ACGAGGCCGAGTCTGATATTAGATAGTCTTTGAATGCAACATAAACAGAC
CACAGGGACTGGTATGTAGCAAATGGTCAATATATAATGTACATAGGAAT
GAAATGGAAATGATAGTGAGTTGGATTTCAGAGTGTAGAAGACTTTATTTT
AGAACATAGTGGGGGCCTTAAGTTGGTTACTTCCAAGGGAGAAGTTGAGA

Table 2

TCTGAGGGTAAATGAATTATTGAACTGCCTATAGGTTGCACAGCATACCT
ATAGAAATGGTGGCACCAGATTTATTTGCGTTGAGAGCGCATGTGGCTA
TTTAGGGTGACCTGCTTTTCCAAAAGGGTGGCTAGCGTGAGCTTACCT
TCTGGTATTCATGGAGGAAT

>Sequence 1030

CCCTTTGAGCGGCCCGCCGGGCAGGTACTTTGACCTGTATGTAACTCTA
GTTACTTTGGTCTTCTCAGGCTCTTGACTCTTTCACAATTAAGTAGTCT
TTGAGGCTCAGCCTGCTTTCCTCATAGCTATGCTATGGCCTGGACACTCA
GGGAGTATAAGCTGAGGCAAACATGGACTCATTGTTTTCTAACTTTCA
GGGATTATTGTCCATCATTGCCTGATGTCCAGTGTCTTGAAAAGCAATTT
TTCTGAGTAGTTACTTGATTGTTCCGGTGTAGGTTCAAGGAGGCAAATCTG
GGGTCACTGTTATTCTGTCTTGACTGGGAGGAGAAAGCCACTGTTTTTTT
TAGTGGCATAGTATGGTCTTAGGAGGTGTAGAAGTACGTCGATGCTGTGT
AATGACAATTGGAGATACTCGGAGGGGCTGCACCAGCAGGGTAGGAGTTG
GACGTACCCAGTGGAATTTCTACGAGGGATGGAAATCGAAGGGGAGAGG
CAGAGTGGGAGGGTAGCATGGGGCCTTTGTGGGATTGGAGGGAGATTGCT
GTGGCCAGGGAGATTAGTGCTAAAGGAATTTTGGGAAACATGAATGGCTT

>Sequence 1031

GGTACCATTGTTTTGTTCAAAATCACAATTTAAATACTTCGTGATTTTAG
AAATAATGGAGCCACGTTTTCACCATTAAGGTGAGTGATTGTTCAAGTAC
ATTTGGCACTGTCCATAGGTTTATGGCTTCCAACCTGTTTAAGACCATT
CCAGAGTGAGAGCTGATTTGCCATGGTTATGAAGCTTTCAGGATATAAAC
TATAAGAATGACAAACTACAGCAGTTGAAAATGTGTCTTCAGATACTCAC
TTGCAACTCCCATTTATGTCTCTAGGGATTGAGAAATGAGGATCGAGGGA
CCAAATCTGGCTTGGTCAGTAAGAGTGTAGGTAACATATAAATATTAATG
TTCGTTGCAGTTAGTGTGGTACCTGCCCGGGCGCCGCTCAAGGG

>Sequence 1032

GGTACAGTGGTGTGATCGCAGCTCACTGCAGCCTCAACCTCCCGGGCCCA
AGCAATCCTCCCACCTCAGCCTCCCAAGTAGCTGTGTTCCAAAGAAATTT
ATTTATAAAACAGGTGTTGGGCTGGACTTGACCCGTGGGCCACAGTTTGT
CAACTGCCATTCTGTAAGCTTAACATGTGTTAATTACTGCAATCTGAATA
ACAATGCTATGATATAGACACTGTGTTCCTTTTAATAGACAAAGGAACCC
AGGCACAGAAGGATTGACTAATATGACCAAAGTCACACTGCCAGTGAGTA
GCAAGCCTGAGCTCTGAACCATGACAGTTCACATCTCCACGACAGCAGC
TTCTCAATGTCTTTTGGAGGGAOCAGAGCCCAGGCAGTAGCAACGGCTAT
GAGGTGGTGAGACATGACCAGCAGATAAGCCCTGGGCAATTGGCCAGAGC
TGGAGGGAGTGGAGAACTAGCCATNTGTGACTTTGTGAACATCCCTGGGG
AGTCTGGAATTACCCAAGAG

>Sequence 1033

GGTACTAGATTGGGTGTGTGTATTAAGAGAAAGACAGGAGTCAAAGATAG
TTCCAAAACTTTTGAACAGAACTGGATGAATACTGTTTACTGAGATGG
GGAACACTTAGAGAAAAATGCATTGGAAAGCAGAAATACGATCAAGACT
TCCATTTTGTATACATTAAGCTTGGTATGTTTAAATTCATAGCTATATAGA
GGTATTAATTTGGCAGGACAAAATCATAGCTAGAGATAAAAAATTTAGAGT
TCACCAGTGTAAGATGATATTTGATGGCACAGGATGGACTTTCTTCTGG
GATTTGAGTATACATAGA

>Sequence 1034

CGCTATAGTGAGTGCACACGCGTCCGATCACGCGTGGGCAGGCATTAGT
TATCGCCAGTTTATCGAGTGTGAGCATACCACAGTACTGATTACTGTGA
AGCTGAGTCCCATTTTATATGTTTATTGATGTTTAAAGATTTTCTGTTCAA
CAAATTGTTTCAATTTCTTTGCCCGTTTTTTCTTTATGAGTAATTTCTTTGT
ATATTCTGGATGTTGATCATTATGGATTATAAAAGCTGCAAGTATCTTCA
CAAAAAACGAATTTTCTGGCGGACCGAACCAATTTATGACTGACAAAAAGA
ACGGGGGGCGGCCTTCCACTCTTTAAAAAACAACCCCCCACCCTCC
CCCTAAACCTAAAAAAGAAAAACGCGGGTGGTGGTTACCACCTTGTC
TCTGGCACTTATTGGTGGCCACTAAAAAACCAATTTGCCATAACTTATTCA

Table 2

AAAAAAGCGTCTTTTTGTCTGCTGTATACCAAGCGGTGGCAGGCCCCCAC
TCAAGAGTTTTTTTTTATTGGGTGGCGGGCCCCCGGGTCCCGAACA
AAAATTAATTCATTATTGCTTCTTTCAACAACCACATTAATTAATTTTCG
TTGAGTATGTCTGGCCAGCGGGCCAGTCGTTTTCTTCTTACACAGAGG
GCGTTTTTTGCTGTTTTCCACACAAGAATCTGGTTGAATCTCCGTCAAG
AAAAATAATGTTTAAAGTAAAAAGCGGCCGGATCGGTGGTCTGCCCTTA
TAAGGGGCGCCCTGGATGGATGGCCTTTATAAACGGGGCCGCCGCCCT
GGTTGGCAGGCAATTAATAATTATCGGTCTCTATAGGTTGGGTGGTTGAC
CAAACCCCCATTACT

>Sequence 1035

ACCATTTAACTGAGTGAAAGCTTTACAATTGAGGGGTACTCATTAGCAG
GACCTGGGTTTTGTGTTTTAATCTCATTAAACCCCTTGTTACCCATTTGATA
ACAAAGACTTCAAGGAAGAATTTGCTCAAAAATCTCTGGGAGACAGTAAT
AGCTTCTTGGGCCTGACTGATAAACTTTTTGCCTCCAGCAATGGAAATGT
GGGAAAAATCCAGATGCTAAATGATCTGGCTTGGACCCAGCAGGTTGAGG
TAGTGGAGCCTTTCGATTGAGGCACAGCCCAGGACTGCTGCAAGGGAGAG
GCACAACAGATA

>Sequence 1036

TGTATATGGGAGTCGACCCACGCGTCCGGTTCGAGCGGTACCACGAGGAC
GCACATATGCTGGACACTCAGTACCGCATGCATGAGGGCATCTGTGCCTT
CCCCTCTGTGGCGTTCTACAAGAGCAAGCTGAAGACGTGGCAGGGCCTGA
GGAGGCCGCCAGTGCTCTGGGCCACGCTGGCAAGGAAGCTGTCTGTCA
TCTTTGGCCACGTGCAGGGCCACGAGCGGAGCCTGCTGGTGTCCACGGAC
GAAGGGAATGAGAACTCCAAGGCCAACCTGGAGGAGGTGGCTGATGTGGT
CCGTATCACAAGCAGCTGACCCTGGGGAGGACCGTAGAGCCCCAGGACA
TCGCCGTGCTCACGCCCTACAACGCGCAGGCCCTCTGAGATCAGCAAGGCC
CTTCGGCGAGAGGGCATCGCCGGGTGGCCGTGCTCCATCACAAGAG
CCAAGGGAGCGAGTGGCGCTATGTGCTGGTGAGCACCGTCCGCACCTGTG
CCAAGAGCGACCTGGACCAACGGGCCACCAAGAGCTGGCTCAAGAAATTT
CTGGGCTTCGTTGTGGACCCCAACCAAGTGAACGTGGCTGTCACGCGGGC
CCAAGAGGGGCTCTGCCTGATCCGAGACCAACCTCTTCTGCGCTGGTTGG
CCCTTTGGCGTAACCTCCTGACTTCTGGGAGGCTCAACAAAACCTTGT
GCCTGCCCGCCAGGTGCGCGTCTTGAGGAAGCCAATATGCCTTTCTGAA
GAGCCCTTTTACCTGCAGGTCCCAGACTGGAGGGAAGATCAGGGCCCCC
C

>Sequence 1037

ACCATTTAACTGAGTGAAAGCTTTACAATTGAGGGGTACTCATTAGCAG
GACCTGGGTTTTGTGTTTTAATCTCATTAAACCCCTTGTTACCCATTTGATA
ACAAAGACTTCAAGGAAGAATTTGCTCAAAAATCTCTGGGAGACAGTAAT
AGCTTCTTGGGCCTGACTGATAAACTTTTTGCCTCCAGCAATGGAAATGT
GGGAAAAATCCAGATGCTAAATGATCTGGCTTGGACCCAGCAGGTTGAGG
TAGTGGAGCCTTTCGATTGAGGCACAGCCCAGGACTGCTTGAAGGGAAA
AGCACAACAGATACCATAAGGAGGTCTGATTTCTGAAAGGAATACCTTGG
CCCGGAACACCCTAAGGG

>Sequence 1038

CCCTTTCGAGCGGCCGTTCCGGCAGGTACTTTGACTATTTTTAGCAACA
AATTAATTTTGACACACAGCACAATTGATTTAACACTTCCAATTTTGAA
CTATTGGATAAAATAATGATGGGATTTAAATAAAGCAATCCGATTCTACTA
TTACAGCATAGGGTCTCTTGTAGTCTCTTAGTAAAACTATTGTGACAC
TTCCTTCTTTCTCCAAATATTCGGCCTGGAAAGACCTAAATACAATGCAG
GGATTGAATCAAAATTCACACATTTTTTTCTACGGAACAACAACCTTT
CTTGCTTATATTAAACAAAACTAGTA

>Sequence 1039

GGTACTTAGATCAGATGGATTGAAACATGACAGCCCCATTTCTGCGCC
GGTTAAGGTCTCATGGAATGAAAAACATTTTCGGGCACTCTCCTATGAG
AGAGAGAATGGGTTTCTTTAATTGCCAGATTGTCTGAACACAGCCTCAGC

Table 2

TACTTCTAGGAATAAGACGAAGCAGTGAGGAAGTTGCCAGTTGAGTGATT
CTTGGGGAAAAAATTAGCATTTCAGTGCCAGCTCTCTAAAGTGTTGGATT
TGGATTCTGGTAGAAGCCAGTAAAGAAACGTTTTCTCTGGAGTGGAAGCT
AGTAAGATTTATTCTGTGGTGATGAAGCCATCTGAAACCTTACAAGCAGT
GTGGTTGTATCAGCATATGGGAGCTGACTGCCTCAGGACTTTGG

>Sequence 1040

ACTCTTATCAACTGTTTTATAGATGAGAAAAACATTAGCCACAGCTTAGCT
TATTTGAAGTCACAATAATATTAACCTAAGTAAGAGCAAAAGCCAAGATTC
AAATGTAGATTATTTACTACAGACTGAGAAACGAATTAACCTAGGAGCC
TAAGATACTTTCTGGAATTGAAATGATACATTATATATACCTATAAAGAT
AATTGGCTATAGCTTCCTAACTACAAATTGTCATAAAAAATGACTTCTGT
CCTATATCAATTAGAACTGGTATTAATAATTGAGTATTATAAGACAATAG
AATGTC

>Sequence 1041

ACTGCAGGGCCCCAAGAGCATACAAAGCTAGTTATTTGGATCCAAAGTTGG
TCAAGTGTGCAGTGTTTAGACATCATGATCTAGGCAACAGAATTCCTGG
CCTGAAAATATGTCACTAGTTAGAAACATTAGAAGCTTTTCAGGTAAATAAA
TATAAAAAACCAGTCAACCGTATTTCTATTTCTTCGTACAGAGAATCATGT
GTCGTTTGGTTTAACTTCCTGCTGGATTCTGGATGGGAGTTGTTGAACAT
ATTAATCTCATTATTTTCTGTAGAGGACAGGTTGTCCCCCTTCCTCATT
AGCGCN

>Sequence 1042

GGTACCCTGCTTTGATTATTTCCGAATCCAGTGGGTAGAGAAGGTAAAGG
CAAGGGCTCACTGGATATTTTAAATTGTAGGGATGTCCTTTGCTCTGGG
TCAATTTTAGGATCAAATATAAAAGCACCTATAGCTCAGAGTATCTTCTA
ACATAAAACTTCTGAGATACCAGAAATTTCCAAAACATGGTATAAACAG
TATGAAACACTGGGTAGATAAAAGCTTTCTCTAAATCTTAAAGTGCTCAA
ATATCATGACCTGATTTTGTAGTTTGTAGAAATCAGATATTTTCTATTCC
ATATCTTAAACTTIN

>Sequence 1043

GGTACCCGTTTGTCCATGGCTATTCCAAATACCCCCATGTTTATTTAAAA
TGTATATATAATCAGTTACATAAAAAAGAGGTATGCTTAAATTGTCATGAC
TCTATGGTTGGACCTCTGTGGTTGGAGCAGGCAATAGAAATGTCTGTAAT
TCATTTAAAAAAGAGTGACTTTCCTACCTTAGATAGTGAGGACAATC
TGTTAACTCTTTGTGTTGATAAAAGCAAACATTTTCAGGGCACGGTGAAG
AAATCTCTACCATGTATAAGGTTATATATATACCAGAAGCAGTGAGTTA
GGACCAAATTAAGATTTGAC

>Sequence 1044

GGTACATAATGTAATTGTTACATATAATTGTTGTATACCATAACTTACTA
TTTTTCTTTTTATTTTATATATAATTTTTTTTGGTTTGTGTTG
TTTTTAATAAACTGTTATCACTTAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAGTC

>Sequence 1045

ACTTTTCCTGGGTTGTGAATCTTGGAGGTTGCCCTGTCAGACTGGTGAGA
TCCCAGTTTAGCTGTGCTAGCTAAAGCAAGGAGAACAGAGAGAGCCATAG
ATACTTTTGCTTAGTAAATCTTTCTTTGAGGGTAGGGACTGGAGTATGG
AACCTTTTCAGAGGAATGAGAGGGGCTTGACGAAAGGGTAGAGGAGGG
AATACCTCCCTGCAAAATCTTACACAATACTAATGTCATAAGGCCGAG
GATGAGAAAGTAGCACTTAACTGTTTCATCCTCATCACACATAAAGCATT
CCN

>Sequence 1046

ACAGCACTTTCAAAGTAGTGGAATATAAATCTTTCCATTTAACAGCAACA
TTCAAATATTTCCATTCTGCTTATTATTCCTCTCTGAAGGTGATACATA
GAAATATAGGAGCAAACACAGCAATGCAGGCGCTCTATGATCTGGTTTGC
TCACATAGATCTTAAAGGAGAAGAATGAGGGATTTGCCTACAACCCACA
GCCAATCTATGTGGACACAAAGGGTGACTTCTTCCTTATTACGTTCT

Table 2

TGAGGTAGAAAATGGTAAACTAGCATGACCTCGAATCATAATTTAATATCA
TTCTAA
>Sequence 1047
ACATTATTGGTAGTATCTCAGAATCTGCTTAGCTTTTGAGATAAACCAA
GTCATGATATTTTGGGTAATATGGCCATAGGTATCATGCAAGATTGAACT
GCCCCAGTATTTGCCTTTTCAATATTTACTTTGTAAGAACCTGACACTGT
AGGTCCTCACCACACCAAAACCTGCAACATAAACTTCAATTTTGGGCAAC
TCATAGACCAAAAAAGCTAAACAAAAACAAAAAGGAAAAAACCTCTATAT
ACAATCACCTGCTTGTCTACATTTAATTTGCTTCATTCAANAATAAGCAG
TCACTGC
>Sequence 1048
ACAACACTTTAAAAAGTGAATTATAAGCTATGTGAATATCTCAATAAAAA
CATTTTTTAAATAAAAAACAATCCCAAAGGCCTGGAAATTCAGGAACATA
ATTCAAAATAATTTATGGATCAGAAAATAAATCATATAAAGATCTGAGAA
CTACAATGTAAAAATATAGAAAAAGTCATAACACTATTAGATAAAAAATC
TGAGCTGGATAACAAAGATAGTACC
>Sequence 1049
ACCTATAAACAAAGGCATCATAAATAGATATAAAGCCAGAAGAAAAAGGGA
TCTAAAGTAGACAGAGAAGATAGGCTGACTCTCCAGTTGCAGATTTTCAT
TATCAGCTCATCACACCACCGAACTCTCTGGTGATTTGCTATCCACATC
CATGGCGTTTGGTGGCCCTAAAGATTGTAACGGCCCCCATCTCTTGGTT
AAAATGGCAGGTGTGTGACAAGAACTGTCTTAGGTACC
>Sequence 1050
ACCTCTCATCTCCAAATCAACTAGACTCTTATGTTAAGAATACTAACAAG
AAAAAATCCAAACCCCAATAGAAAAATCCCAACAACAACATATACCCT
TAAACACAAGAAATGTATTATCAATGAAAGCAATACAAGTAAACACAAC
AGTTACCTTGGCTATTTTTTCAATGTACC
>Sequence 1051
ACCCATCTCTCCATTCTGGGAATCTGGGAACTAAGCCTGTAACCTTGTA
GCTTGTAGAATGAATGATGGAGTAGAATAAATAAGAAAGGAATATATCAT
TAAATGCACAGGTAAATAAATAAAAAATCTATTAATAAAGAGCCTAAAGA
AAGAAAGATGACATTTTCAGCACATATTGGGTGAAATAAGTTGTTTAGTCC
AGCACTTCTCAATTTTTAGTGGATATGTGAATTGCCTATTAATAATGCAAA
TTTTAAATTAGTTAATCTGGGTGGACCTGAGTCTGCGTTTCCAACAAGC
TCCCAGGTGATGTCN
>Sequence 1052
ACGCGGGTATAGCTATATACTCATATTTTTATTTTTATGTAAAATTTCCA
AAATGCTTAATATGGCAGTATAATAATTATACTAGATTTACTTCAAAAC
ATAGACATAAAGAAGATTACATGCCTGTAGAAGTTCAATTGAATTAGGAAT
CACATGCTATTTATTTTAGCAGATATCTTCTTAATTAATGTTTGACCCA
TGTGAAGTCATTTAACAGATCTGTTACGCATTATTCACATATGCAAAATA
ATCTATATGATCTGAATACCATTTCATCTTTAAATTAACATATTCCT
>Sequence 1053
ACAATCAAAAAAAGACAAAAAAGAAATGGTGTTAAAAGCCACAGTAAACA
TAAACCTCATATCAAGTATAAAACCACACACACTTTGCTCTTCATCCGGA
CAATGCCCAAAATTATACTGAGGTATTGGGGTGGGCTGATACCTTCAAAAC
AGGGAGAGAGGGACCATGTTCAAGGAGGTGATTCTCGATTAGGTGGTG
ACTGAATTTTTTTTTTAAGACAGGGTCTCACTCTGTCACCCAGGCTGGA
ATGCAGTGACGTATCTCGGCTCACTGCAGCATCAACCTCTGGGCTCAA
GCGATCTCCCACTCAGC
>Sequence 1054
ACAATGAAAATTACAAAATACTGTTGAGAGAAATTAAGAAGACAAATAA
ATGAAAAGAGACGGAACATGTTTTCGCTTGTAAACTCAGTAGGATTAAAG
ATCTCTTCTCTCCACGACTCTATAGCTTTAAAGCAATCAAAATCAGACT
GGTTTTGTCTGAACGTTTTTGAATAAGTCAATGGCTTATTTCAAAATTC
TATGAAAATTTCAAAATGCCAAAGAATAGGCAAAATATTTAGAAAAGAAGA

Table 2

AAGATTGAGGATTTGCAATAACTGACTTCAAACTCACTAGAAGAACGAG
GCCAGACTGCCAGGGT
>Sequence 1055
GGTACCCACCACGTTTCATGTCTCCTCTAGCCAATAAAAGTTATTAACA
CAAGAACCTGTCTTATTCATCACAGTATCACCCACAGGGGCTGAGACAG
TGCTTACACAGAAATGGCCCTTGATAAAATATGGGCTGAATGAATGAACA
TATGAATTTGACACTTTGAGAACTAAATTAAGTTATTTCTACTAGCAT
TTTTAACACAAGAACTATTGAGATTACTTATATATTAGTAGTAAATGTT
TGCTTTATTCATTTGATTGGCAAACTTATAATGAACTCAGTGAACCTTGT
CCACCTTTTTCTACATGTN
>Sequence 1056
ACATTAACCTCACTGACTTACTCTGGGTTGCTATTGTATTAATAATCTGT
TAGACATTACGTAGCCTCAGAGTTGAATTTGGACTGCCCTTAAATAAA
AATCTTAAATCTTTAGTGTGGTGTCTATTAATTTTATGATGATTTACA
AGTTGGAAATGATTACTTTGCAAGTCATAGTTTACTTTGAAGTTAATAAG
AGTGATTACAGTAAAGGAAAAATGCCATATATGGCATTGTTCTTAACAGC
TTATGAAATTTGGAAAACGATATTTAGAAAGCTTCTCTTGTGGCTGG
AATGAAGTGGAGACCTGCTG
>Sequence 1057
ACAGCTTGTTTCAGGATATTTCTTCTATTTTCTTTGAGTTCTTGTTCAT
ATTCTAGTTAATTTCTAGTAGTTCTTAATGTATTTTAACCAATAGACTTT
TGTCTTCTTCTGCTTATGTATTCCTCGTAAATGCTTTTTGTGACTTGT
TAAGTATAAACAACTTTACTATTAGCTGTAAAAATTTTCAATTTTAGTATG
TCATCAATCTTTTTTGTGTTTAGTATGATTAAATGTTTTTCACTTGGAA
AGATATGAATAGTCTACTTCATTGATTTTTTTTAAAGTCATTTCATTTT
TATTTTTGTAGCTACAAAATCATAAACN
>Sequence 1058
ACTATACCAGAGTTAAATTGCCTGTGTTCTTTCTGCCATTAACCTGGCTT
TGGGTTGGGAAATTCAGATAATCCACTTTTCCAACCTTAAATGAGATCT
CATTCAAAACAAAATTGCCCAACCACTTTGGAATATGTGTTTAAATTAG
ACAGTAATGCTTTGGAAAGTGAATTAACATTTCAGAATAATAGCTGTT
AGGCCGGGCTCAATGGCTCACGCCGTAGGGAGGCTGAGGCAGGTGGATC
ACCTGAGGTCAGGAGTTCGAGACCAGCCTGGCCAACATGTTAAACCCTA
TCTCTATTAATAAATACAAAAATGAGGCATGGTTGGCAGGTGCCCGTTGTC
CCAGCTACTTAGGAGGCTGAGGCAGGAGAATTGCTTGAACAGGGAGGTG
GAGGTTGCAGTAAGCTGAGATTGCGCCAGTGCCTCTAACTTGGGCAACA
AGAGTGAGATTCTGTCTCAAAAAATAATAATAATTAATAATAATAGTTG
TTAGATTGAACATAGAAAACACGTTTTTGTAGATAAAAAATTTGCCAAGTG
TCAGCCAACCTTTGACAATTTTTAAATCACCAACTTGTGCCATTTACCTCA
TTTAAATGAAGCATTTAATGGACACAAAAACCTTTAAGCAGTTTTTTTCG
GAAGAAAACCCAGTGTTCGCTGGACCGGATGCCACCTATTAGTACGGCC
CGAGAGAATT
>Sequence 1059
CCCTTAGCGTGGTTCGCGGGCCGAGGTACTTTAACAAATTAATAACAAATT
TTAATTTAAATATTTTAGAAATTTTACTTAATACATTTATTTAATGAAG
GCTGCTTTTAAGAACTTTAAATCCTCAGTAAACACCACCTGCAAAG
TATTAATATCAACTTTTTCAACAAAATGCCTGCTATGTATAAGCTACTGA
AAGAAGACAAAAATTAATAAAATGTGTCCCTCCTCTTAGATATCTATAAT
CTAGGAAAAATGAACACATTTCTTTTCAAGACACTAACTCCATAAGAACAGG
CATCAGATCTATCTTATTTACCACCACATCCTGAGAATGGAGCACAGTGC
CTGACACATAATAGATGCTCATAATAGATGCTCAGGGTTTATAGTCAGTG
AATAAGTAAAGAAATGAGTGAGCAAAATATCTTTAAAAAGAACAGACTTT
TAAAGTTAAACAGCAGTGATGTGTTATTCAGTAGCAAATAAGATTGTTTC
CTAATGTCATAATTCAATNTCCCTGCTTCTACTATGACTAGATGTTGG
TTGGTGATAGTTTATATGATTACGTTATTTGGTTGGTTGATTTAAACAG
TGAAATAATCTACAAAACCTGCAGTTGTNCTGCTATTCTCTAGATGGAAA

Table 2

AGGCTTATAAAATTTGGTCAAAAAGGTGGGGGGGGATATAGGGCCCTTAC
CATTATATATGTGATTTTTAAAATGGCAATCATGTTTT
>Sequence 1060
ACAGTTACCAAAACCCATCCAACATAAAAAATTTAAGCTTTTTGCATTTTAG
TGGATGCAAAATGTGTCTTAGTAAGAAGAACATACAAAACTAAGAAAGA
TAATGTTGAAGAAAATAACAAAGCTTAAGGACTTAACTATTACCATCAA
GACATGTATAACTACAGTAATTTTAAAACTGTTTTCTTGCAATAAGTATA
GAGAAATGTACC
>Sequence 1061
GGTACTTACGCTTTATGATCTTGAATATTTTCAGTGTTAAGGAATCTCT
TCCTTCTTTGATCTCCACTGCATGNAAGAACTCTGTTGCAGGTGTTAACA
AGGAAGTTTGAAATAGAAAGCCAGAACCTGCCCCCAAAGATCTGACAGT
AGTAGAAGGAGATCCATTATTAAGAAGGTATAATGGCAACANAAGAATAA
TCACAAATTTATCTGTGTGTGTAATATGTGTTGTGTGGTGTGGGTCAAGGA
GATGAGGAAAGTGGTTAGGGAAGACTTTATGGAGGAAGTGGGCTGTCAAC
AGGGATTGAATGTGACAAGAAAAGTTGGGGGGAATTCATGGTAATGACTG
ACTTAGGCATTTTAAACAAGGTATGCTTGTGAAAGGCAACCCCATGG
TTGCAACAACAGAAAGCTAATTGCTTCCTTTGCCTGGAGTTTACTGGGGGC
CTTTTTAGTTTTGGTTCCTTCCTGGTCTTCGGTCCAAAAACACAGGAAGG
GTGGAGGAGGGAAAGGAAACCCCTGGAAACCCCTTTATAGGGTCTAACTAT
GCTTGGAAAAACAGGGGTACTTGTGCCCCATTTATTTGGCAATGGAAAT
AACTGGCCACACTGGATTTCCTTAAAGGGGGCTCCTTTTTTGGAAAAAT
TGTGCAAAACGGCCGGGTGAAACAGGGGGATTTTAAACAGGGGGTTTA
TTTCTTCCCT
>Sequence 1062
GGTACTTTAACAATTAATAACAAATTTTAAATTTAAATATTTTAGAAAT
TTTACTTAATACATTTATTTAATGAAGGGCTGCTTTTAAAGAAAATTTAA
ATCCTCACGTANACCACCACCTGCAAAGTATTAATATTCAACTTTTT
CAACAAAATGCCTGCTATGTATAAGCTACTGAAAGAAGACAAAAATTAAT
AAAAATGTGTCCCTCCTCTTAGATATCTATAATCTAGGAAAATGAACACAT
TCTTTTCAGACACTAAACTCCATAAGAACAGGCATCAGATCTATCTTATT
TACCACCACATCCTGAGAATGGAGCACAGTGCCTGACACATAATAGATGC
TCATAATAGATGCTCAGGGTTTATAGTCAGTGAATAAGTAAAGAAATGAG
TGAGCAAAATTTCTCTTAAAGAAGACAGACTTTTAAAGTAACAAGCAGTGA
TTGGTTATCAATAGCAATTAAGATTGTTTTCTAATGGCATAATTCAAT
TTTCCCGGCTTCTACTATGACTAGATGTTGGGTGGTGAATGGTTTATAT
GATTCAATTTTGGTTGGGTGGATTAAACCCGGGAAATTTCTACCAAC
CTGCAGTTGGGCTGCTTTCCTTTAAAGGGAGAGGCCTTTTAAATTTGGG
GCAAAAGGGTGGGGTTTTTAGGCCCTTCCCATTTTTATATTGGGATT
TAAAAATGGCATTCCGTGTTTTTTCCAACG
>Sequence 1063
ACACAAATTTCTAGGTAATCTAAATTTTAAATGTCTAGAAATTTTTTTC
TTTTATGAACCAGATCACAGTTTCTGACATCGCCTAACCATGTAAACGG
GTGAAGCCTTCAGTCTTGGTCTGTTATCTCTCCCATTAACAAGTGGTTTC
AGTAAACAATTGCAGGGCGGCAGGATAACCTCATATTGGAATTGTTAGAA
AACACGCAGTGTTTTACAGATGCCCTACATTAACCACNCTTCATAGAGA
CGTGGTCTCTTCAATTATGTATGGTTATGGTATGATCGTTAAACCATCAAT
ATATACTGGTTAACAATTTTAGTAGGTAGTTATTCCTTTTCGCTTTTGT
ATAATATCCAGTTTTGGTCTGAACCGGTAATTACCTTTTTTCGTAATTC
GATTTTTAGGTAAATGGTTACCCCATTAATTTAAGAGATAAAAAATAAG
TCTCTACTTTTGGAGTCTTTTAAAGGTTGTCTATATTGGCCACTTTTGTG
CCAACTGGAACAGAAAGGTGCTAAAACCATAAATCGTTGGGAATTAAC
CCGGAATTTTTAAGGGAATGGAGAGATTCTTCGACCAACCCAGTTTTATT
AAAAAGACCCTAATAAGGATCCCCGATTACATGGGGGGTGGGTGTGTAC
CAGGAGGATTATTCAAACCTTAGAGAGGGTTTTCTCTTTATCTGGCG
CTTTATAAAATATATTGGATATTTGGCACATATAGGGCTCAGGAACAA

Tabl 2

CCCTAGAGGTTTGTGGTAAAAATACAAAAAATTGGCGCTTTGGAGGGCGA
TCTTCATAAACCCCTGGGGCCCTCCAAAAGAGAAAAATAAATAAAAAAT

>Sequence 1064

ACTTACTACAAGCAGCAAAAGGAAGCTCTAGAACAAGGAATTAACACAG
TGTTTGTTCCTCAATCGCAGAAGAGGCCATGAGCACCATATGTGTGTCAGG
CTTATCATCTGAACCAAGAAAGGCCAATCCTTCACCTTTCTTATGACTC
TTATAGGCTGCAATATTTCACTTGGCCATAAACCACTTAATATCTCACAC
CTAGTAGTATTCAGTGACACAGAAAGGGAAGAGAAAGGATGAAGAACAG
AGGAAAGAGAAATAATTTCCCAAGATACAAATTTAATATTCTTTCCAAAG
CATAAGAGCAATTAATAAATAATTTCTCTGTTGTAGTTGTAGGATGGATTT
TTCTACATTATTGNTCAGACATCCTGGANATAATATCAAACCTTTGTAAAG
AACACAAAAATTTTTATTTTTAATTAATAAACAATCCTTCTAAAGGGG
TTTAAGAGCTTTGAACACAGGCCTTAGTAAAAGTCCCTTGGCCGCAACCA
CCTTAAGGGCGAATTCACGACA

>Sequence 1065

GGTACATTGAAACAATATAGTAGTCTTCCCCTTTACAAAGCTGAATTA
GTAAAAGTGTGTGTTGGNGAATAATAGGGGAATGTNGGATTGGTAGCTGT
TTAATANAAGATTTAGGATACATTATAAATTGCTTAAGGGCCAGGCGCT
GTGGCTTTACGCCTATAATCCCAAGCACTTTGGGAAGGCTGAGGTCGGGT
GGATCANCCTGAGATCAGGAGTTTGAAGACCACCTGTTCAACATGOTGA
AACCCCATCTGTACCTGCCCGCGCGCGCTCGAAAGGG

>Sequence 1066

CCCTTAGCGTGGTTCGCGGGCGAGGTACCCACATGATCCCAAAGAGGAGG
GCCCTGTATAAACAAGAACCAACCAACATAAAGCAGTGAACAGGCACC
ATGACAACAAAAGGAGTTTTAAAGTGCATCTTCAAATAGCACACAATTTT
CCAATTTAAATAGTTTGAATGAATCAAAGGGAAAAAAGCATTAAATAGA
TACAACCTGAATTTCTCAAAGTATATTAACACAGCCTACAAATAAATCCT
CAAAATGTACCTGCCCGGTTCGGTTCGCTCGAAAGGG

>Sequence 1067

CCCTTAGCGGCCGCCCGGGCAGGTACCCTCCGTGACTTTTCAGGGTCTCC
TGGTTGAATGAATTTGCAGAAGGATTAAATGTGTGTTCTTATTGTGACC
TTTGTATTCTCCCATTAAGTAGTGTGTTGGAGGCTTATTAGAATAAGCT
GAGAAGGGTAATAACATAAACACATACCGTAGGCAGCCCTGACATTAAC
ACATNAGGTAGGAGCCTGCCATAAAGCACCCTATGTAAAGAACTAAAGG
GGTGTGTTTCCATTTTCATGTGTCCAAGCCTTCCTTCCATACTCTCGAG
ATGACAAGAACAACAAAGTTTGCTGAGCTTCACACCAACTAATTGACTAAA
TCCAGAAAGTTTGAACATGCGAGAACATNTTTCTTTTGTGTTACAAGGG
TTATCTAATTAATGTTGGACATTTTAAAAATCCACAAGTGTTGGATAATCT
TGTGAAGTTTCTGATTTAAACAGAATCATGGTGAAAAAGGGACCTTATTT
TCAAGAAAATCTTGCAATTATAAAACCCTAAAGTTACCTTCGGGCCGGCG
CACCACCNCTTAAAGGGCAGAAATTTCCAAAACCACTTGGGCGGGACC
GTAACTAATTGGAATTCCCAAACTCTGGGGTACCCCAAGCGCTTTGGCG
GTGAATTCAATGAGGCATTAAGGCCGGTTTCCCTTGTGTTGAAAAATGGG
TATCCGCGCTCCCCAAATTTTCCACAATAACATTTCTGAAGCCCGGT
AAAGCCTTTAAAGAGTGTAAGGCCCTGGGGTGTCCTATTGGGGTGG
ACCTTAACCTTCCACTTTATGGCGGGTGTGGGCTCCTTTGTACGGGTTA
ATATTAGAAAAAATTTGGGGGCCGTAATCTAGGGGATCCCCT

>Sequence 1068

GGTACTATATTAGTGTAGCAATTTTCCAAAAGCCATTCTTAGAGGGC
TAAATGATTTTACCTTATCAATTCCTGTGAAAAATATCTCTAAAGAG
GTITTCTGCTGGAAAAATTTGTTGCTGCACATTGATAGCCAACAAAAG
CTAAGCAGGGAAAGTCAGGCCAAGAAATATCTCCCTGCAAGAGAAGGCATC
GCACATGTATCTCTCATGTATTTAAAAATTGCATTCTGCAACATAGAAA
GGATAGGCCATGCTGCAGAAGCCAGGTCCAGGAAAACTGCTTTCTTTGGC
CTTTACACANTCCTTTTGGAGAGATGCTGGTGAAAGCAGCAACTACCATC
TGCCTTCTGTTGACTTATTGTCANCAGGTGGAGGGAGGAAGGAGGGCATC

Table 2

GCAGACATCATTCTATTATCTCAACCTTGCTTTCTCGGATCCAAAGCCAA
GAAGTTGCTGTTCCATGCCCTTAGAGCTCTAATTTGGCACCTTTCTCTGA
AATGAAAAGCTTGAAAGGGCTTTTGGCTTTGGTGAAACCGGTTCTGGGCC
GGGCAAAATCTGGTGGTTTCGCGTCTGTCAAGTGGGTCTAATAACTGTTA
TAAGTGTGGTCTTGGAACATTTGTAAAATATTTCTATTGGTCACACA
CCTTTTCTGTTTAGACATTTATTTTAAACACAGACAAATGCTTAAGTGT
CCCGCCCCAGGGTTCTTAACCT

>Sequence 1069

GGTACCCTGCTTTGATTATTTCCGAATCCAGTGGGTAGAGAAGGTAAAGG
CAAGGGCTCACTGGATATTTTAAATTTAGGGATGTCCTTTGCTCTGGG
TCAATTTTAGGATCAAATATAAAAGCACCTATAGCTCAGAGTATCTTCTA
ACATAAACTTCTGAGATACCAGAAATTTTCCAAAACATGGTATAAACAG
TATGAAACACTGGGTAGATAAAAGCTTTCTCTAAATCTTAAAGTCTCAA
ATATCATGACCTGATTTTGTAGTTTGTAGAAATCAGATATTTTCTATTCC
ATATCTTAACTTTTCAATGTTAAATTTCTAGTTCTGACAATGTAGGGTTCTA
TTTTTTTTCAGGTGATTGTTGGGAGCGTATAGAAGCATATATAAATATGGA
ATATGTGTTTCTTTTTTCCCTTCTGAAAGAAAGTCAAGCCTCTAATCAA
ATAGATTGATGCTTCAGAACTTAACAGAAATATTATCTGCAATTTGGCAT
AAATGCATNTTCTTGGGGAAGTTTCCATGGTCAAAATTTAGTCATTG
CAAAACAGAAAAGTTTGACAACCTGGAAATGCAGACNCTTTTGCTTGATTN
TGTAAGACAGGA

>Sequence 1070

CCCTTTGAGCGCGCCCGGGCAGGTACATTATATTAATGAAATTTATCT
AGTCCTTGCAAACCTGTGCCTATTGATTTTCATTAGTGTAAGTAAAGAG
AGAACTTCACACTGACATTTATAATTGTAAGAACTAAGAACCAACCATC
AGCTTTTCTATGCCAATCCATGCCCTTCAGGAAGTTCTTGAGGCCTTGAG
GTTGCTAGTTTAGTAAATTTGCTTACTGGGACATTAAAGCAGCTACATTT
GGAAAGAGGGAGAATTAAGTTTTTTGTTGTTGAATTTATTACTAAGT
AGTTTAAAGCTCTCTTAGATCCAAAAGAGGAAAAATTCAGGTCCATTA
ATCAAAAGCTGAAACTTAACTTTAGNTAAAGTTATTTTGATTAAATAA
CAAACCTCCGGTTTCTTCCACAGCCGTTTATCCGAAACTATC

>Sequence 1071

CCCTTAGCGTGGCCGCGCGGAGGTACCAAACTGAAAAAGATTGTGTA
TCCAAACATTATTTACATAAAATGTATTTTGATAAAGTAAATTTCCAAA
CCATGGTGCTCAGAGGTTGTAACAGTCCATGTAAGTTGAAGAAAAAGAGT
TATCAATCAATACGTGACTATCAATCATTTATTTAATCATTATTTAGTTT
TCACATATCTATGAATTCAGTAGAAGAACAGCACTCATAAAGGTGGCCA
TTCCTATACCTGCCATCGATTACATTATTTTACTTAAATAAAGCTTATAT
TACATCTGACAACATTCCTTGTAAAAAATAAATTCCTAAACAGGGCAAT
ATTCCCCTCTTTAGAAATATGCCAAAAAATAATTTTAACTCATTT
GGAAACATTCCAGGAACCTATTCCAGAATCTATTTATTTTGAAAAACAA
ATTTGTTCAAAATAATCCTTTGGCTTGGTTGGAATAAAAAATTAATTCAA
ATTTTCAAAACAGACTGGTTTAAATTAATAAATAAGGCCCAAAACCCCTA
ATTTATTTACAGGGGGCCGTAAGCCAATT

>Sequence 1072

GGTACTTTTTTTTTTTTTTTTTTTGAGACGGAGTTTCACTCTTGTTC
CCAGGCTGGAGTGCAATGGCGCAATCTCAGCTCACCACAACCTCTGCCTC
CCGGGTTCAAGAGATTCTCCCGCTCAGCCTCTTGAGTAGCTGGGATTAC
AGGCATGTGCCACCATGCCTGGTTAATTTTGTATTTTAGTAGAGACAGG
GTTTCTCCATGTTGGTCCGGCTGGTCTCGAACTCCCGACTTCAGGTGATC
CTCCTGCCTTGGCTCCAAAAGTGTGAGGATTACAGGCGTGAGCCACCAC
GCCCTGCTTAAGTTTTAATAAGATCTTTGGCACTTTTACGACTGGCA
ACTTAGGTCTCAGAACACAGAAAAGCTTGTCTTTAAGTATATTGTCTT
GAAAAGTTAATCACTCTCTAAATGCTCCATTTAAATGATTTACTTTAT
AAATGCATGCACTGAGAGAAAAGATTTTGAAATGATATACANCCACATGT
TAAATTAAGTGTGATTGTTTCTAAGTATTGGCACTATGGTCAATTTCTT

Table 2

TTTCTTGTTTATGCTTTTCTGAAGTTTTCAACCCCCATAATAAAGATGTA
TCTCTTCT
>Sequence 1073
GGTACCTATTGTATCAGAAAAATGCTAATTAATTTTTTGCACATAAAGGG
CATTTTAAACTTGGTTTTATTCTTTGTGATAAATATGGATGATGAATGGT
AATGTTAAACAGAATTCAAAAGTTATCAGTTTGGCTAGCCAGACACAGTA
GTATATGCCTATAGTCCTAGCTACCCAGGAGGCTGAGGCCAGAGGAGCCC
GGAAGTTCACGTTTAGCCTGGGCAGCATAGTGAGACACTGTCTTTTATAA
AAACAACAGCAAAAAATGATCAGTTTGGGATAGTAAGACAAATGGCTTTCT
TTTGTTAGGAATTTCTCTATTTAAAGGACTTTTAGGCCTAGAGTGGTGGC
TTACGCTTGTAATCCCAGCACTTTGGGAGGCCAATTGCAGGAGAATCACT
TGAGGCCAGGAGTTGGGGACCAACCTGGGCAAAGTAGGGAGACCCTGTCT
CTTCAAAAAAATACAAAAATTAGCCAGTGAGGTGGTGTCTTGGCTGGGGT
CCTAGCCACTGGGAAGCTGGGGTGGGAGAAATACTTGGGCCAGGAATTT
GAGGTGTAGTGAGCTATGATCCCGGTACAGATTATAGACCCTGTCTCTA
AAAAATTAATAAATAAACCTTTTTTAAAGGACTTTAAAGTTGGATTTTTT
CTTGTTAAGTTATTATCATTTCTTATGTCTGCTTTGACCTGCCCGGCCG
CGTTAAG
>Sequence 1074
GGTACTGGGTCACTCTGCCCCAGCTCTCCAAAGGCATCAAGATCCGACTG
CTAGGAGCCCCGGCTTCTTCCCTGACCTGCCCGTCTCCTACACCCTCTGG
TCCTGCTCCACACTGGTCTAATAAAGTGGTGTCCACATTCCTCTAACGTG
CACAACACAGTCCCTGCCCCGTGCTTTTCACTCTGTCCATTCTCTTA
TAACGCTCTTCCCCAAATCGCTTGCCCATGGCTTGTGTTGCTCATCTCAAG
GTAGAAACAACTGTGCTCAATCAGCTAGAGCCCTCCCACTATGCTCCC
GCGTACCTGCCCGGCGGCCGGTCAAAGGG
>Sequence 1075
ACTCTTCAAAGAGGATAAACTTAAAGAAAAATGACTAGATACACATCAAAT
TAAGCTGCTGAAAACCAAAAAACAAAGAAAAATTTTTGAAAGCAGCTAGA
AAAAAATTACACACCACACAGAGGGGAATAAGGTTTACATTACAAAGATT
TTTCACCAGAAATCAGAGAAGTGAAAGACAGCTAAATGGCATCATTTGAG
GTGCTCAAGGAAGCAAGCATCTACTCGGAATTATATCCACCTAAAATA
TCCTTTAGGAATGAAAGTAAATAAATACATTCTCAAAGAAAAACAAAGA
GAATGTATCCCCAGCAGACTGATCTGCTAGAAAAGCTAAGGTCAACATTA
GGCTGAAAGGAAATGCTGCATCTTCAGGAATGAAGAAAGAGCAATAGAAA
CAATAAATATATAGGAAAAACAAAAATACTAGATTTTTCTCTAAGTTCT
ATAAAGTACC
>Sequence 1076
ACTTCACTGATTTATGGCAAGTCAGCCAATCCATCAGTGCTCAAAGCTCC
TTGTATTGTGTCAGGAATGTCTAACATTATTTGTCACTATTACAGATTAAA
CTGCCAACTAGTAGCATTGTTTGTGTCTGATAGATTCTTCATGCAGAA
AGAATAAGTAAAAATGAGATGGGACACAAATCTGAGTATAGCATTGTCATT
ACTTTTTGCTGCACAGATTACTTGCAAGAAATATTCTAGTCTGGGGCATA
ACAGAATCCACAAATCCAGATTTAAGAAATAGGTCTATATAAAGCTTAT
TTAATATTGGTATATTTTTAGTTACTATTGCGTGTCTTTATAATGC
AAAAGCATTTTTTGCGAATCTTGTTTTCTACTTAAAAATGAAGAAAAATCT
TAACATACAGTGGTGAATAGGAACACCACACAACCCATATATTGATTAA
AGTAGTTTATTAGGTAAGCTTACAGTNGAAGTAGCTTCCGAAAAAAAAT
ATTAAGAAAACCATTAGAGAAAGGGTATTTACTATTTCTTAAGGGGGAAA
AGGTCTCTATTATGAATCATAGGTGTTCTATTTATAAAGGTATGTCCTTC
AGAACCTGGAGAAGGGCTTTACAAAAATACCTTGGAATTTATCCAGGGGA
ACAAATTGACTCAAAAAACAAGAGCTGGGTAAAACCCCTGGAAAAAGGCC
TTATAGCCAAAT
>Sequence 1077
GGTACAGAGTAACCATGACTTACTAGGTGTTATGATGAAGGTGTATGTGT
GTGTATATGTGTGCATGCATGTNATAAGTGTGTGCATTTGCACACATAAG

Tabl 2

AGTTTTAAGCTGCTCCTGTCATTTATTGATGGTCAAAGGTTTCTTTTGGC
TATTGCTGGACTCTTAAGATTGTCTTGTAATTGTCTTTTGTGTTGTTG
AAAATTAAGGGTGTATATTAAGGTAGTTTTTACCCAGATCTTATATGTG
TGATAGCTCACGTCTGTAATCAGAAACCTACTGTTTAATGGCCACCCAAT
TGCCATTAGCTTCTAGAGGGTGATTTAATAAACTATCTTCTTTAAACT
CATTTAAAATTAGAGACATGTTTGCATACAATGGATTAATGACGTTTCA
CACTAACCCACAAAAGTCTGCTGCACTTTCTTTTGTAGGCCAATTCATCA
TTTCATATGCATTGAATATTATTGGTGAACCTGCATTAATTACATCGTGC
ATATATGGACATACAATGTCATCTGCAGAATTTAAGATTTTTTATTGTTA
ATTTTTATAGGGACTGGGAAATTGAGAATTTAAATTAGCATGCTTCATTT
ATAATAATATTTCTAGTGGTTCATTAACCCCTAAAAATGTGATTAGATCAG
GATTAAATTGGGAAGAAAATTTTCTAAAAATGGGCCTGGCCCGCGGGC
GTTTCAAGGGCAAA
>Sequence 159
TGGCTATTGAGACCTCACCGCGGTGGGGGCCCGCCGGGCAGGTACACAGG
ACCAATGCTGCCCATCCACATGGAATTTACAAACATTCTACAGCGCAAAA
GGCTCCAGACTTTGATGTCAAGTGGATGATTCTGTGGAGAGGCTGTATAAC
ATGCTCGTGGAGACGGGGGAGCTGGAGAATACTTACATCATTTACACCGC
CGACCATGGTTACCATATTGGGCAGTTTGGACTGGTCAAGGGGAAATCCA
TGCCATATGACTTTGATATTCTGTGTCCTTTTTTATTCGTGGTCCAAGT
GTAGAACCAGGATCAATAGTCCACAGATCGTTCTCAACATTGACTTGGC
CCCCACGATCCTGGATATTGCTGGGCTCGACACACCTCCTGATGTGGACG
GCAAGTCTGTCTCAAACTTCTGGACCCAGAAAAGCCAGGTAACAGGTTT
CGAACAAACAAGAAGGCCAAAAATTTGGCGTGATACATTCCTAGTGGGAAG
AGGCNANATTCTACGTAAGAAGGAAGGATCCAGCAAGAATATCCAACAGT
CAAAATCACTTTGCCAATATGAACGGGGTCAAGAATAATGCCAGCAGGCC
AGGTACCCTTGGCCGTCTAGACTGGTGGATTCCCCGGCTTGAAGAATTCC
ATTTTAAGCTATTATTACGTCAACTGAAGGGG
>Sequence 160
TGGATGATGNATTGGTAGGCCTCATCGCGGTGGCGGCCCGCCGGGCAGGT
ACACAGGACCAATGCTGCCCATCCACATGGAATTTACAAACATTCTACAG
CGCAAAAGGCTCCAGACTTTGATGTCAAGTGGATGATTCTGTGGAGAGGCT
GTATAACATGCTCGTGGAGACGGGGGAGCTGGAGAATACTTACATCATTT
ACACCGCCGACCATGGTTACCATATTGGGCAGTTTGGACTGGTCAAGGGG
AAATCCATGCCATATGACTTTGATATTCTGTGTCCTTTTTTATTCTGTG
TCCAAGTGTAGAACCCAGGATCAATAGTCCACAGATCGTTCTCAACATTG
ACTTGGCCCCCAGATCCTGGATATTGCTGGGCTCGACACACCTCCTGAT
GTGGACGGCAAGTCTGTCTCAAACTTCTGGACCCAGAAAAGCCAGGTAA
CAGGTTTTCGAACAAACAAGAAGGCCAAAAATTTGGCGTGATACATTCCTAG
TGGAAAAGAGGCAAAATTTCTACGTAAGAAGGAAGAATCCAGGCAGAAATATC
CAACAAGTCAATCACTTGCCCAAATTGAACGGGTCAAGAATAATGCCAGC
AGCCAGGGTCTCGCCGCCTAGAACTAGTGA
>Sequence 161
GATAACGTTGAACCTCATCCGAGGCCGGCCGAGGTACCATCCTATTAATA
CTAACTTCTGCTTCTACATACTGTAGACCTTTCTGGATGATAGAAATCAA
TGCAGCGGGTGGGACGAGGGCACCATTTATATTGGACTGACTGATATGGC
TTTCTATACCAAAGGTAAATGCTGAATGAGAAAACTCTGACTCTTGCAAG
TATCTATATACCAAGAAGTTGACCTCATCACTGCTTATACTCATCTTTAT
TCCCACTTAAACCATGAGGTACACCCACAGGATATAACCCATTGGCAGTG
CATTGATGTGGGGATGTGCAACTGAATATCCGGGCACCGCCAATCACAAG
TTGCTGTTGTTGATGCTGGAAACGGTGGCCTTCAACGCCGCTTCCCCCTT
CCGGGAATCCCCGCTCTCCCCCGGGGTTNNTATTTCTCTAACTACTCA
GTCTATTCTCACTAAAATATTCTTTATAATTTAACTTTATACGAATTTA
ATAGTTATTCACTATTATTTATTTTATATATTATACAAATTTCTATT
TTTTTTAAATCAATACCTTAACACTTTTCTTTAATTTTTATTACAATATA
CCAATAGATTATAACATTTTACTTATTACATCTTTCTAC

Table 2

>Sequence 162

GGCGGCCGAGGTACCTGGCCTGCTGGCATAGTTCTTTGACCCGTTTCATAT
TTGGGCAAGTGATTGACTGTTGGATATTCTTGCTGGATTCTCCTTCTT
ACGTAGAAATTTGCCTCTTTCCACTAGGAATGTATCACGCCAAATTTTGG
CCTTCTTGTTTGTTCGAAACCTGTTACCTGGCTTTTCTGGGTCCAGAAGT
TTGAGGACAGACTTGCCGTCCACATCAGGAGGTGTGTGCGAGCCAGCAAT
ATCCAGGATCGTGGGGGCCAAGTCAATGTTGAGAACGATCTGTGGGACTA
TTGATCCTGGTTCTACACTTGGACCACGAATAAAAAAGGCACACGAATA
TCAAAGTCATATGGCATGGATTTCCTTGACCAGTCCAAACTGCCCAAT
ATGGTAACCATGGTCGCGGTGTAAATGATGTAAGGATTCTNCAGCTTCC
CCGTCTCCACGAGCCTTGTTTACAGGCTTTCCACAGAATTAT

>Sequence 163

TTATTATCGATGCGCACCACGCGTCCGGGTGGCTCTATGTAGTTCTAATT
TGCATTTCTCTAATGACTAACGATGTTAAACATATTTTATGTACTTGTT
TCATGTACTTGTTGATATGCTATTCAATTCCTTTACCATTTTTATGGA
GCTGTTTTTTATTATTGAGTTGTAGGATTCTTTATATATGCTGCATAC
CAGGCCTTTGTTATATACATGCTTTGCAATGTACATTGTCTAAAAATCTG
TGGCTTGCCTGTTCAATTCATTAGTGGTGTGTTTGTAAAGCAGTTTTTAAT
TTTGATGAAGGTAACTTATTCATTTTTTATTATGGTTATTGCTTTATGT
TTCAGGTCCCAAATTTTGCCTTCTCACAAATCACAAACATTATCCTATGT
TTTCTTCAAAAATTATATGGTTTTATGTATTTCAATCTCAAAATATTC
TCTAATTTTTTGTCTGATTATTTACTAAAGAAATTTGAGGGATTGCTA
TAATGTTAGGGATTTTTCTAGATGCCACT

>Sequence 164

TCGATGACTCACCGCGGTGGCGGCCGCCGGGCGAGGTTATTTAATTTCT
TAGTGCTCAATTCCTCCTCTATAAAACAGAGATAATAGTATTTAGCCC
AGAGGGTTGTGGTGAAGTGTGAATCAATTTCTCATGTAAAAACATAGGA
CAGGCTGGGCATGGTGGTGGGCACCTGTAATCCCAAGTACTTGAGAGGCT
GAGACAGGAGAAATCGCTTGAACCCGGGAGACGGAGGTTGCAGTGAGCCGA
GATAGTGCCACTGCACTCCAGCCTGAGTGACAAGAGTGAGAGTCCATCTC
AAAAAAAAAAAAAAAAAAAAAGTACCT

>Sequence 1078

CATGCGCTGTATATAAAATCTTCGTCTTGTTGTATATATATATTTAAAAA
TGTCGATGACGTTTAAACAGATAAATNNNTNANCNCNNGNCGTNNTTNNNN
NNAAGTGGNGGNGNGATTGTATACGACTATATAGGCGAATGGGCCTCTC
AAGCATTCTCNANCNCGCCANTGTGATAATTCTCTCTATAATCGGCCG
CCCGGGCAGGTACAGACTTAGTACCTTTGCTTTTATATATTGTGTTTTT
GCATAGATATGAATAGTTTCACTAATCCATTCATGGTACTGTAAACATT
CTTAAACCTTTGTTTTATGGGATTATCAGAGTAACAAAAATAATGTAGTCC
CTTTATGGACTATAAGTAAC

>Sequence 1079

GGTACAGCTCACATTCATGGGGAGGAAAATCAGGGCCTGTCTTTAGATAG
GAGATGTATCAAGAATTTGTGGACATATGTTAAATCAGCACTACTC
TTGATGT

>Sequence 1080

CGATATGGGAGTCGACCCACGCGTCCGCTGCCATCGCCCAATGGGCTCAT
AAACAAAGTGGCCATGGTGGCAGGGATAGACTTTCTCAGCAACATGGACT
TTCACTACCAAGGCAGACCTGGCTACAGCCACTGCTGAGTGCCCCATTT
TCCAGCAGCAGTGCCCAACTGAGCCCTTGATATGGATCATTCCTTGGG
TGATCACACAGCTACATGGTGGCAGATTGATTATTTGGAATTCTTCCAT
CATGGAAAAGGGCAGAAAGTTTCTCCTCCCTGGAATGGCACTCCAGATATG
AGTTTGCCTATCTACACGCAATGCTTCTGCTAAGACTACCATCTGTGGA
TTCACGGAATGCCTTATCCACCGTCATGGTATTCCACACAGCATTGCCTC
TGACCAAGGCACTCACTTACAGCTAGTGTGACAGTGGGCTCATGCTCTT
GGAATTCATGATCCCAACATGTTCCCAACATCCCGAAGCAACTGGATT
GATAGAATGGTGAATGGCCTTTTGTAGTCACAATAACAATGCCAACTAA

Table 2

GTGATAACTCTGCGGGGCTTGGGCAAATTTTTTCAGAAAGCCATTGTT
GCTCTGAATCAGCATCCAATATATGGCATTGGTATTCCATACCCAGGATT
ACAAGTCCAGGAAATAATGGGGTGGAAATTGGAATGGATTACTTAACATTA
CCCTAATGATCCATAGAAAATTTGGCTACTGTTCCACACATTCAATCT
GGTGGTCTAAAGGTTAGATCCCAAGGAGAAAGTCCACAGAA

>Sequence 1081

GGTACACGATGTGGCTGACATTGGCTGGAGTCTGCTAAGATGTCTTCTT
ATGCTGGATGGACGACAGACCTGTAAACACCTCTGTTTTTCATCTTCTCCAC
CATATTTTTTCATCAGCCGCTCATGTTTTTCTTTCTGGATTTTATATG
GCACGCTGATCTTGCCTATGTATCACCTCGAGCCTTTCTTTTCATACATC
TTCCTCAACCTACAGCTCATGATCTTGCAGGTCCTTCACTGTACTGGGG
TTATTACATCTTGAAGATGCTCAACAGATGTATTCATGAAGAGCATCC
AGGATGTGAAGAGTGATGACTAGGATTATGATAAAGAAGATGAAAAGGGA
GATGAAGAGGCTACCCAAGGCAAAGAAATGGATTGTTTAAAGAACGGCCT
TCGGGCTTGAGAGGCACCTCATTTCCAATGGGCAGCATTGGCCTTAACCTG
GAAGCCTACAGGAACCTCTTGGCACCAGTTGCTTAAAGTAACTTGCCCGG
CCGGCCGATTGAAAAGGGGGA

>Sequence 165

TCTTCCATACTTCGTAACCTCTATACATTTACCATTGTTATCATCTACTAT
AATTATCCATCTTATACCTCCGAACCTCGTTTAATAGTATTTATCTAATTA
TTATATAAATTCTATTTATAAATTACTTTTCACTGTCNAANAGCCTTGTG
TTTTTATCCGCTGACGAACGCGCAGGNACCGGCATCAGCATTAGTAATC
AACCTGTAAATCCAAGGTCTTTAGAAAAAATTGAAATTATCTGCAAGC
CAATTTTGTCCACGTGTTGAGATCATTGCTACAATGAAAAAGAAGGGTGA
GAAGAGATGTCTGAATCCAGAATCGAAGGCCGTCAAGAATTTACTGAAAG
CAGTTAGCAAGGAAAGGTCTAAAAGATCTCCTTAAACCAGAGGGGAGCA
AAATCGATGCAGTGCTTCCAAGGATGGACCACACAGAGGCTGCCTCTCCC
ATCACTTCCCTACATGGAGTATATGTCAAGCCATAATTGTTCTTAGTTTG
CAGTTACCCCTAAAGGTGACCAATGATGGTCACCCAATCAGCTGCTACTA
CTTCTGTAGAAGGTAAATGTCTAATTTCTAGCTTTTCAGGAATAACT
TTACCTGGCACTATTAATGAAAGCTCTACCGGGGTGCCTATGTCTTAAG
GGTGGTTTGGACCTGCTTCAAATAATTTCTTCACTTTCCCATCTTCCA
GGGGTCTTGGGCGGTCTGAACTAGTGGGATCCCCGGCCTGCAGGAATCC
ATATCAACTTATATGTCCCGCGCCCTCAGGGGGGGCT

>Sequence 166

TTCTATTATTGCTTGATCGACTATTCTTCTCGGTNTATTGATTGAACA
GTATTCACTTCTATTACTTCTTTTATACATCCATTATCGTCTGTTT
ACGATGTTTATCTATTATATGTTCTACATTATGTTTATTACNNNNAAG
GGTCGTTGCTTTGTAGCGCCTCTCCNAGTGGCGGCCGNGCGGCAGGTA
CTTGCTCAGCCTTGCCAGGCCCTCTGATGAGCTCTTAATCAGCAGGAC
CAAGGTGTGAAGTGGGAATGAACATGGATCCATCCCATTTGGATGGAGAAG
AAAGGTGGACAGCCTGTTCTGCTCTCATGTGAGCCTAGGGCTGGGAACAG
TTTGTGAGGACTTATCTGTTGTACCT

>Sequence 167

CGCCCCGAAAGTACGNTCCGCTAATATTGATGGCAATTTCTACGTTATT
CTCAACTCGTTTTTCATGTTACTTATATGACATCTACATCATCAGTTTATA
GTACATAATATNTNTNNAATGTATGTGCTGGTAGCGGGCTGNCGNCCGG
GCAGGTACGCGGGATGGCAGTGCAGCGCAAGTAGGTCTACAAGACGCTA
CTTCCCTATCATAGAAGAGCTTATCACCTTTTCATGATCAGCCCTCGGA
ATCATTTTCTTATCTGCTTCTAGTCTGTATGCCCTTTTCTAACACT
CACAAACAAAACCTACTAATACTAATCTCAGACGCTCAGGAAATAGAAA
CCGTTTGAATATCTGCCCCCATCATCCTAGTCTCATTGGCCTCCCA
TCCCTACGCATCTTTACATAACAGACGAGGTCAACGATCCCTCCCTTAC
CATCAAATCAATTGGCCACCAATGATACTGAACCTACGAGTACCCT

>Sequence 168

CTTGTCTTTCACTTACACATTTTTCCAACCTCTATCTTAATATCACAT

Tabl 2

TCTCTATATTTTCTTTTTTAATATAAAATAAATATAGTCTATCATATTGT
ATTAATNNNNNTGTTAAGTGTGCTGTAGCGGGCCGCCGACGCTGGCAT
TGCATCTTCAGGAGACGCTCGTAGCCCTCGCGCTTTTCTAGGACAGTTC
GCGGAAGAAGTGGCTACGCTTCCAGAGCCACATCATCGCGGTGCGAAAT
AGAAGCCCAGAGAGAGGTAGGTGTAGGAGGCTGCAGGTACCT
>Sequence 169
CCGTGTGCCCATTGANANTCTGNCTTACCGNGNGCCGCCGCCCGGGCA
GGTACTTCCACTATTATTGAATGTATTCTGTATTATAATTGTATATTGA
TTGCCTATCTCCCTCAACTGCATTATACATTTTCATGGGTGAGCCAGTG
TCTTTTCACTCTATTTCAAGTGCCCTGCACATTTTCTGGCACATAGTAAG
CATNCCCAGTATGATGNAATAAATGTANTTTCCCTAAATTCAGG
TTCAGTATNCCTTAATCTGNAATAAATACTAAAAATCCGAAATGCTCATAAAA
TTCAAAGCTTTTTGAGGACCTGACCTCGTGCCTCAAAGGAAATGCTCAT
TNGGAGCATTTTGGACCTTCAGAATTTCAAGATTANNGGGATATTCATA
CCCGTAAGAAATAAGTGTCAATATTTCCCAAAATNTNNCAAAAAAGTCT
TTGAAATCCCCAAAACAACTTTTCTGGTCCCCAAGGTATTTTTTGAAAT
AAGGGGATTACCTCANACNNCTTGTACCGTNNAAAAATACCCATGCANNNT
ACTNNTTCGATTAGGCACCATGTGAAAGGGGTATCTTCTCTTANNAAA
TTGANACCCTCATTTGGGNNTTTCGTCTTCAAGCCAAAATGACCCTGG
GGCCCCACTTTCAACATGNNNGCTTTTAATTCGCTGCGCTNGGATGTTAA
ATGGCCATGGTTCCTCTTTTTTACCACATAAATTTCAATGGCCCCATCA
AGATTGAATATTCACATTTGACCATAAAGTGGCCATTCAAGGTCCCTT
CAACAAGCCCACTCATAANGGTTTTCTCTCTCTCCAATTTTGG
TTCCTTATGAAAATTTCTACCTTTGGCTTTCCCCAGGAAACCTTTAAGT
AGGTTTCTCGGTCAAGTCCCGCAACACCAGCAACGCGGGTCTCCGC
GTAACCTTCGGCCGGTTCTAGACCTAGTGGGATCCCCCGGGCCTGGAGGA
AATTCGAATTCAGGCTTATCGATTCCG
>Sequence 170
TGTGTGATGCGTCACCGGTGGCGGCCGAGGTACTTAGCTGTGTTTTTA
TTCAAAGTCTACATTTTATGTAGTGGTTAATGTTTGCTGTTATTAGGAT
GGTTTCACAGTTACCATACAAATGTAGAAGCAACAGGTCCAAAAAGTAGG
GCATGATTTTCTCCATGTAATCCAGGGAGAAAAACAAGCCATGACCATTGT
TGTTGGGAGACTGAAGGTGATTGAAGGTTCAACATCATCCTCACCAACT
TTTGGGCCATAATTCACCAACCCTTTGGTGGAGCCTGAAAAAAATCTGG
GCAGAATGTAGGACTTCTTTATTTTGTAAAGGGGTAACACAGAGTGCC
CTTATGAAGGAGTTGGAGATCCTGCAAGGAAGAGAAGGAGTGAAGGAGAG
ATCAAGAGAGAGAAAAACAATGAGGAACATTTTACCTTACCAACATCCTTT
AGGAGCATAAATGTTGACACTAAGTTATCCCTTTTGTGCTAAAAATGGACA
GTATTGGCAAAATGATACCACAACTTCTTATTCTCTGGCTCTATATTGCT
TTGGAACACTTAAACATCANATGGAGTTAAATACATATTTGAAATTTAG
GTTAGGAAATATTGGTGAGGAGGCCTTA
>Sequence 171
TGTTGTACTTATCGGGGGCGGCCGCCGGAGCGGCGGAGCATGATGGA
AGTCGTAGTAGGAAATGGCGTCTGTCGTCATTGAGGGGCATCCCTCCTAGAA
CCTCCAGGAAAAAGCTCGCGGAAGACGAGGTTCTCGGAGAGAGAGGCTCC
AAGCAGTCTGGGAAGTGTAGTCCAGTTGGCTTAGCAGTAGTTTCGTTGGG
GGGGAGCCGAGGTTCCGGCAAGGGGCTAGGCCGGCTTGAAAAGAGATTAT
GACTGTACCTCGGCCGTCGAGCGGCCGCCGGGAGGTACAACCTTTTATA
CAACTCAGGAGATTAATAAAAAATCTCCACAAGAAGAAGCAACTCAGCAG
GCCCTGGCATTAAACATTTCCAGAATAAACAGATATGCATTGCATTAA
AGGTAATTTTCAAAATATTTAAGTTACACCAAGATTCCCTCCAATATGTG
CCTTCTCAAACCAATGCAACTAATTCATTGCTAATACTGGGGCATGAAT
TTTTGGCAAATGTTTATGGTTTTACTTTCTTCAATTAATCAAAAAATTTT
TAAAGTGCTACCAAGCAGCAAAACATGTCGCATCAGTTCTCTGCTCATGG
CAGAAGTGCCCACTGTGAAATCGCAAAAGGTAT
>Sequence 172

Table 2

GACGATGCATTACCGGGCGGCGGCCGGGTACAGATTTAAGGTTGATGGA
CTCAGGGTAAGGATAGCTACAGCTGTGTGGGGCTGAAGGTCGTGGCACT
GAGCTACTGGGAAGGAGGGCTCTGTTTTTCATTGTGACACACTGAGTTAA
TAAAGCACTTACTGAGGGAGCCAGAGCCCAAACTCTAAATGTGCTGTAGA
AAAAGGGCCAAGTCATTGACTGCACCACTCCTTCAGCCAGAGGTAGAAAAG
GATTTACTCTTCAGCCATCTGGTAGAGCCCAAGAACAAGTTACATGTGG
AÇAAAGGGAGGGAGAGGTATCATGGTGATTAATAAAATTCAAACAAAGCTG
AATGATAAGACCCAGGATGGAATACAGTCTGAGAAAGGCCTGGGCAAG
GGAGGCAGAGGGACTGAAGGAAGCAGGTCAAGGAAGATACACC
>Sequence 173
AGAATGACCCCTTACGCGTGGCGGCCGAGTACGCGGGATAGGTGGA
AACACTGCCATTCAAGTCAAGGAACCCAGGGCCAGCTGGAAGTGTGGA
GCACACATGCTGTGGAGCACACATGCTGTGGAGATTGCAGTGTGCTGAG
GTTTGTGTAGTAGTGAAGATTTTAGGTATGTAGAGCAAGTTGAAATGGA
TTGAGACTGCATGGGGGCATAAATGAGAAATTGCCTGTAGCATCTAGTCT
ACTTGAAGGAAGTGGAGACATAAGGAGAGACAAAAACAGGTTTGTCCAT
AAAGTATTTTTCAAAGACACCAAGATGTGGGTAAATGAAAATTATTAGT
TCACTTCCCTGCTGGCATGAACTTTGCCTTAAGAAGGGTGGCTGGAATT
CCAAGTTTGGTAAAGGGCAATTTTGGGTAAAGGACTGGCTTTTTGAAA
TGCCTTATG
>Sequence 174
GTTTGATTGCGGTGGCCGAGCGGCCCGCCGGGCAGGTACCACTAGGGTGT
TGTTAAAGGACTTGATAACCAGCTTGAAGAGGTTCTACTGACCAGAAAT
GGAATGAAATTTAAGCATCAATAAGGTAATAAAGTCAAGAGACTGACAT
CCACTATGGTTTTAAATCCATGAGGTCACAATGATACTTAATTTTTCATTA
TTCTGAAAACCAAGTAAATAAAGGCTAAGATTCAACAAGCATTATCCAGC
CTTTCCTCAATGAAATATATCTTAAGAGAACCGAATAGTTAACATAGAGA
CATGGCCGGGCAAGGTGGCTCTCGCTGTAATCCCAACACTTTGGGAGGC
CGAGGTGGGAAGATTGCTTGAGCCCAAGAGTTCTAGACCAGCCTGGACAA
CATGGTGAAACCCCTGTGCTACAAAAAAGAGTCAAAAAAAGTCC
CACTTCCCTTTTTACTGTAGGGGGGATAACTTTTAGGAATTAACTTTTT
GAATATTATTTCTGAATAAAGCATGTGTTAATGGTTAAAAANACAAAAG
ATCAATAATAGAAAATAATAAGTCCCTCGGCCGCTTAAAAATAAGGGGA
TCCCCGGCTGGAGGAAATTCATTCAAGTTAATGATACCGTTACCCTTAGG
GGGGGGCCGGTACCAACTTTTTTCTTTAATGGG
>Sequence 175
AATCAAGCGCATTATTCGTATTACTGTACGTAATACATCGACGTCTGCTA
CTCANATTTTTACTTTATTATATATGTACACTCACTCTATCTATATATAC
TATTATGTATCTATGAGGCTATNTATATATTTANNNNAAGTTTGGTGTG
CGCGACCGGCCAGGTACCAAAACCTGGGGATTAAGCTAAGAAGTCTGGTG
GAGAGACTCTGTGGACGTAAAGAAGGGAATGAACACAGAGAACTTTCAG
CCAGATTCCCTGAGTGTACCTGAACAAGAAAGTCAAACTGGAGTGAAC
CATGCAATGCAGCGTGTGTGGGAAAGTCTTCCCTCCGTCAATTCCTG
GACAGGGACATGAGAGCTCATGCTGGACACAAACGATCTGAGTGTGGTGG
GGAATGGAGAGAGACGCCCCGGAACAGAAACAACATGGGAAAGCCTTCA
TTCCCCCAGTAGTGGTGACGGCGCACAGTAACACCAACTCGAAAGAGA
CCTTATGAATGCAAGGGGTGCGGGAAGCCTTAATTCTCCCAATTTATT
TCAAAATCCATCAAAGAACTCACACTGGAAAGAGGTCTATAAAAGGAGG
GAAAAAGGTGAGAGCCTTTACAGTTTTCAGTTTCTTTTGAAAAATGGAA
AAATGCATACTTGGGAAAAACGCTATGAATGTAAATACTGTGAAAAACC
TAATCGGTTATTCAGGTTATTTTAAATTCATGTTAGAAATAACACTGGG
GAAAAACCTACCAAGGTAACCATGGGGGAAAGGCTTTATTTCCGAGGG
TACCTTTGGGCACATTGAAATAAACTTAACCGGCTGGT
>Sequence 176
CCGGCCAGGACGCGGGGTGCTGTGAAGAGCTTTGCATTGTGGGAAGTCTT
TCCTTTCTCGTTCCTCGGCCATCTTAGCGGCTGCTGCTGGTTGGGGGCCG

Table 2

TCCCGCTCCTAAGGCAGGAAGATGGCGGCCGCACAGAAGACGAAAAAGTC
GCTGGAGTCGATCAACTCTAGGCTCCAACCTCGTTATGAAAAAGTGGGAAGT
GCCT

>Sequence 177

CCCCCGCTTACCCGACGCCGTGCGGATTGGAAC TCCCGCGGTGGCGGC
CGAGGTACTTTTTTTTTTTTTTTTATGAATTATTTCTTTCTCA
GAAAAGGATGCGCTCCACTTAGCAAGGCTGGGCAGGATGTGGTCTGCA
TCTCCACAGACGGGGTGGTCTAGA

>Sequence 178

TGGGCGTTGAGACTTCTCGCGTGGCGGCCCGCGGCAGGTACCAAAC
CATTTTCACTAGTTCAGGATAGGAATATTCATCAGATTGTCTCTGTAAAA
GTGAATCACAAAAATTCACCTGTGTAGGTGTGGGACTGGACAGCTGAGT
GACAGGGCCCTGGGAAGAACAGAAACCACTTTCTCTTTCTCTGAAAT
ATCAGAAGTTAAAAATCTACTCTGAGTTATATGTGCATCAATTTAGACA
TATTGCTGATTTTATTATGAAAAAGAGTCTAAAGACAAAGGATATTTT
CATTCCTGGAAGGCAGCCACAGACCAGCACTGCTTGACCCATGTGTA
TACACATGTGTGCTTTGTACCT

>Sequence 179

TGGTCGTTGTGCGGGCTGCCGAGGTACTCACAGTCACGCAAATTCCTG
TCTGCGTGACGGCTCTCCATTCTTCTTCTTGGCTTTACAGGTTCCCAGG
TCAAGAGCTTCACCCATAATTAAGACCTTCTGAGGATGAGCGATAGATAA
ACACACCTCTCTGAACCATCCTTGGGCTTCATGGGGTTGGCATTGAGGA
TCCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAACCTTCT
CCAAATAAGAACAGGACACACATTGTGTGAGGTACGAAGATCATTACAG
TTTCCATATGCTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCT
TCTTCAATATAACCCCAA

>Sequence 180

TGANAGATTTGCGNGGCGGCCGAAAAC TATCAGACTGTCTCAGATCAA
GGAAAAGATGGCCAGAGAGAAGCTGGAAGAAATAGATTGGGTGACATTG
GGGTATATTGAAGAAGGTACGCCACAGAGTGTGAATAGTGAAAAACC
TTCAGCATATGGAAACTGAATGATCTTCGTGACCTGACACAATGTGTGTC
CTTGTCTTATTTGGAGAAGTTCACAAAGCGCTCTGGAAGACGGAGCAGG
GGACTGTGCTAGGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGT
TCAGAGGAGGTGTGTTTATCTATCGATCATCCTCAGAAGGTCTTAATTAT
GGGTGAAGCTCTTGACCTGGGAACCTGTAAAGCCAAGAAGAAGATGGAG
AGCCGTGCACGCACTGTGAATTTGCGTGAAGTGTGAGTACCT

>Sequence 181

TGGATATGTGCATCGGGGGCGGCCGAGGTACTCACAGTCACGCTCCTCTG
AACCATCCTTGGGCTTATGGGGTTGGCATTGAGGATCCCTACGACAGTC
CCCTGCTCCGTCTTCCAGAGCGCTTTGTGAACCTTCTCAAATAAGAACAA
GGACACACATTGTGTGAGGTACGAAGATCATTACGTTTCCATATGCTGA
AGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTCAATATAACC
CCAAATGTACCCAATCTATTTCTTCCAGCTTCTCTGGCCATCTTTTC
CTTGATCTGAGACAGTCTGATCAGTTT

>Sequence 182

TGGATACTGCAATCGGGGGCGGCCGAGGTACATGGATACGTTCTTCTG
GGGGCGGTCTCCAGTCTTTCTCATGAGGGAGCACACTCCTCTGCCTCAT
TGCAGTGGCCTCAGGGATATGGAATTAAGATCCACCTGGTGTGATGAATA
AACCAGACTCTCAGCAACGCAGGAAAAAAACAAAACTGGCTGGCGAT
CTGGAGTAAAGGATCCTCACATCCACGTGAACCAGGAAACTCTG

>Sequence 183

TGGATATCGAGACGTCTATCGGGTGGCGGCCGAGGTACGCGGGGAGCGGA
AAGGGAGACTGTGGGGAACTAGGAGCAACAGCAGGCATGGACCAAAGCAG
TGAAGGATGTATGAAAAAGATTAGCAGTGTGAATCTTGACAACTTATAA
ATGACTTCTCACAGATAGAAAAAGAAATGGTAGAAACCAATGGAAAGAAC
AATATACTGGATATTCAGTTGGAAAAAGTAATTGCCTATTTAAAGTAAT

Tabl 2

GCAAGCAAAGGAGGTCTCCATTAAAGAAGAATGTGCTACTCTTCATAATA
TAATAAAAGGGCTACAACAGACCATTGAATATCAACAGAATTTGAAAGGT
GAAAATGAACAACTAAAAATAAGTGCTGATCTTATAAAAGAGAAGTTAAA
GTCTCATGAACAGGAATATAAGAAATAATATTGCCAACTTGTAAGTGAAA
TGAAAATCAAAGAGGAGGGATATAAGAAAGAAATAAGCAAACCTTTATCAG
GACATGCAGAGAAAAGTTGAATTAATGAAGAAAAGCAGAAAAGAACTAAT
AGAGAAAAAGGAGATGGAATTCANAGTTAAATGCAAAAGCTCAGAAAGTCA
AAAAAAAAAAAAAATGAAATAATCAAGCTACAAGTGAANTTGTGCTCA
AACTAGCAAGAGTTCAGACTAAATCAAAATCTATCAGGATTTACTTGTTT
>Sequence 184
TGGATGATGCTCATCGCGGGGCGGCCGAGGTACATGGATACGTTCTCTTC
TGGGGGCGGTCTCCAGTCCTTTCTCATGAGGGAGCACACTCCTCTGCCTC
ATTGCAGTGGCCTCAGGGATATGGAATTAAGATCCACCTGGTGTGATGAA
TAAACCCAGACTCTCAGCAACGCAGGAAAAAACAACAACTGGCTGGCG
ATCTGGAGTAAAGGATCCTCACATCCACGTGAACCAGGAAACTCTG
>Sequence 185
GCNNATGATTANTCCTTACCGGCCGCCCGGCAGGTACGCGGGGGTGTCC
GGCGATGGGCACGGGCATTTCTTCGTTTATAGCTGTCTGTTTGCATTCTG
ATTGGGAACACTGGGATCATTTTCATCATGCCGACAGTGGTGGTAATGGA
TGTATCCCTTTCCATGACCCGACCTGTGTCTATTGAGGGGTCCGAGGAAT
ACCAGCGAAGCACTAAGTAATATGGATGATTATGACAAAACCTGCTTGA
GTCTGCATTAGTTGGTGTGCAATATCGTTCAGCAAGAATGGGGTGGTG
CAATTCCTTGCCAGGTGTCTGGTGACAGACGGCTGTCTTGGCATTGGT
AGAGGGTCACTGGAACATTCTTACCCACTCAAACCTTAACGAAGTGAGAG
CAACCGGTTTCCACTACCTTTTCTTCCATCTAACTTATATACCAGGC
GCGGGCGGAATTGGAGGGACCACCGCGCCCTGTTCTTGGGAATTTCTA
AAATCTATTATATATTACACATTTGTAGGGGGCCATATTATAATTGTGG
CCGCCCCTGTGTGAAAAAAACTCCCTCGGCCTATAAAAAAGTGGGCCCC
CCCCGGAGGGGAATTAATAATCTAACCCCCCCCCCGGGGGGGCCCC
CCCCCTTTTTTTTTAAGAGAGGACACCGCCC
>Sequence 186
TGGGCCGATGGAAGCGCTCACCGCGGTGGCGGCCGAGGTACTCACAGTCA
CGCAAATTCACAGTCTGCGTGACGGCTCTCCATTCTTCTTGGCTTT
ACAGGTTCCCAGGTCAAGAGCTTCACCCATAATTAAGACCTTCTGAGGAT
GATCGATAGATAAACACACCTCCTCTGAACCATCCTTGGGCTTCATGGGG
TTGGCATTGAGGATCCCTACGACAGTCCCTGCTCCGTCTTCCAGAGCGC
TTTGTGAACCTTCTCCAAATAAGAACAAGGACACACATTGTGTCAGGTAC
GAAGATCATTCAGTTCCATATGCTGAAGGTTTTTCCACTATTACACTC
TGTGGCGTAACCTTCTTCAATATAACCCCAAATGTCACCCAATCTATTC
TCCAGCTTCTCTCTGGCCATCTTTCTTGATCTGAGACAGTCTGATCA
GTTTT
>Sequence 187
NGGATGATTGCACTCACCTGGTGGCGGCCGCCGGGCAGGTACCAGAGAT
TCCAGAGAGTGGTCTTTGGAATTTCCCAACTCCTTTGCTTCAGTGCCCTG
ATCTCTGAACATAACAAACCAGAAAGAAGTGGCAGCATGGACTTATCATT
CAGCACAAAAGCATACTCATGGAATATTTCCCGTAAATACTGCCAAATCG
CTACACAGACTTAGTGGCCATCCAGAATAAAAAATGAAATTGATTACCTCA
ATAAGGTCTACCTACTACAGCTCCTACTACTGGATTGGGATCCGAAAG
AACAATAAGACATGGACATGGGTGGGAACCAAAAGGCTCTACCAACGA
GGCTGAGAACTGGGCTGATAATGAACCTAACAAACAAAGGAACAACGAGG
ACTGCGTGGAGATATACATCAAGAGTCCGTGAGCCCTGGCAAGTGGAAT
GATGAGCACTGCTTGAAGAAAAAGCACGCATTGTGTTACACAGCCTNCTG
CCAGGATATGTCTGCAGCAACAAAGGAGAGTGCTCGAGACCATCGGGA
ACTACACCTGCTCTGTACCCTGGATTCTATGGGCCAGAATGTGAATAC
GTGAGAGAGTGTGGAGAACTTGAGCCTTAACACGTGCTCATGAACTTG
AGCCAACCTCTTGGAACTTCTNCTTAACCTGCGAGTGGAGCTTCACTG

Table 2

CACTTGACGGTACCTTGGGCGNTCTAAGACTAAGT

>Sequence 188

GGAGGATGTGCANNNTNTTTTGAANANGCGACTCCACCGCGGTGGCGGC
CGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTGTAACTACAGGTGT
CAGATGCATCACAAAAGCAGAAAGTGCCCTTTCAGCTCTTCTGTGCCAT
TCCTTGTCAATTTTCATGCTGCCTACAGCAACAGCATAATACTGCAAAACAG
CCATGATGTCANCTCGAAGTGNTCTCTGTGATTGACAGAGAGGGACACGT
CGTAGTCAAGAGGTGTGCTCCTCAGAAGAATATCAGAACTCAACTCGTG
TGCTCCAAGGGGCTCAATCCCTTGATTTGAGGGGAGGGATGNAATATT
CTCTGCATGAAGAGAGCNAGCGGATGGGAAGTGATACTAGGTATGTAAAG
GATGGTCAGTTACCTCTAAATGTAAGTTAGACCAGGACAGCCAGAATCAC
CGAAGGTCTTGGTTAAGGTCCCTCTGTAACAAGGCCGTAGAAGGCCAGA
AATGTNGGTGACAGCGAGACACNATTTCTTAACTCTTACANCTTGTGT
AAATGAGTAAGAAAGGTGACANTTTGTTTTGAAAAATCCCCCTCCCCAGC
CCTTTTGTTCCTCAAGAACTCAGTTATTCAATTTTCTGGTGCCCTAA
CATACAGTAGTTCCTTAAAGATAAAACACTACCTACTTGCAACAAAATCA
TNAGAAAGTGCCAGAGCCATTACCAAGATGGGTACCATAAGAATTAATAAA
AATATTATTGCAAAAAAATAAAGGTTCTAAAAGTTAAAAAATGGGATTA
AGATGGTAACTCTTACCTAATTCCTAAAAATGGCTTGTATTAAACCGAA
CCGGCTTGGTACAAAACACCGTGGTTTTAATCTACCCGGAAACTTTGGTC
TTAATTCCCTTCCTCCCTGACAACTTAAATACCT

>Sequence 189

CCGGGCAGGTACGGGNGAAGGAAAGCAGCTGCAAACTTCCCATCTGCAG
TGTTTGTGTTGCTCGGCTCCGGCCATCACTGCCACGATTACCCCTGGATG
AATTCCTCAGTGGAATATCAACAAGACTCAGCCCACTGCACCCAGGTG
ATTAAAAAGCTTTATTGCTCACACAAAGCCTGTTGGTGGTCTCTTCACA
TGGACGCGCGGACATTTGGTGCCCTGACTTGGATCAGGGGACCTCCCTT
GGGAGATCAATCCCCTGTCTCTGCTCTTTGCTCCGTGAGAAAGATCCA
CCTACGACCTCTGGTCTCAGACCAACCAGCCCAAGGAACATCTACCAA
TTTTTAATCAAGAATATTCTGTGAAAAAGACTAAGATATCAGAGAAATTA
TTAGTGCACATTATTAGAAGAGAGCTTCAGATGAAAAATAAGATCAAGAA
AAGACTCTTGCTTTGAGAAGACACAAAGAAATCACATCATCTTATTGGGA
TTACTGGCTAGCCATATGCAGAAGATTGAAGCTGGTCCCCTCTTACACC
ATATACAAAAAGCAGCACAAAGATGGATTACTTAAATGTAAACCCAAAAAC
TATAAAACCCCTGGAGGACAATCTATGCAATACCATCTGGACATATGA
AAAAGCAAAGGATTTCTGTGCAAAACACCAAAAGTTATTTGAACCAAAGC
CAAAAATTGACTGGTGGGATCTAATTAAACGTGAGAACTTCTTGACAGCC
AAAGGAAATTGCGGCCGAGTAAATAGACCATCTTAATAATGGGAGAAAAT
ATTTGCAAACTATGCTATCTTCAAGGGCTTATTTTAGCCTTTATAAGGT
TGTTTCCAAATTCCC

>Sequence 190

TGAATGATCTGATCGCGGGGCGGCCCGGGCGAGGTGCCATCGCCGTCC
CATTGCTCACAGGGACTGGGAAGGCGATGCCTGGCGGGAGCTGCTGGTGG
AGAGACTCGGGATGACTCCTGCTCAGATTCAGGCCTTGCTCAGGAAAGGG
GAAAAGTTTGGTCGAGGAGTGATAGCGGGACTCGTTGACATTGGGGAAAC
TTTGCAATGCCCCGAAGACTTAACTCCGATGAGGTTGTGGAAGTAAAA
ATCAAGCTGTACCCTGATGCTACAGACGAGGACATCACCTCACACATGGA
AAGCGAGGAGTTGAATGGTGCATACAAGGCCATCCCCGTTGCCAGGACC
TGAAACGCGCCTTCTGATTGGGACAGCCGTGGGAAGGACAGTTATGAAACG
AGTCAGCTGGATGACCAGAGTGCTGAAACCCACAGCCACAAGCAGTCCAG
ATTATATAAGCGGAAAGCCAATGATGAGAGCAATGAGCATTCCGATGTGA
TTGATAGTCAGGAACTTTCCAAAGTCAGCCGTGAATCCACAGCCATGAAT
TTCACAGCCATGAAGAATGCTGGTTGTAGACCCCAAAAGTAAGGAAGAGG
ATAACACCTTGATTTTCTATTIN

>Sequence 191

TGGGAAGTGATCTAATCCCTCTACCGGGAGGCAGACGCCCGGGCAGGTAC

Table 2

TCCCTGGAAAGTCCAGCTGAGAAAGCGATCCTGCCCTCTGCTCCTCCAG
GGTTACCTCCTGTAAAGTCTTCTGCTTAGTGTTTCAAGAAATGGGGGATGCT
GGGACTGGGCAAGGACTTGTAGGCAACACCCCATAGCCTGCTCATGCCTG
TTGGGTTGCCTATGGATCATTCCCTGCTGGGCTCACTACCGGCTTCGTA
TAAGGTCCTTTTGTAGGTTTATTATTTCTTGTCCATATACTTGATGCTC
TTCATTGGCTTGTCTGGGACCTGCCTTAGGTTCTCCGAGGCATAAAAGGG
CCGGACAGCCCCGAGTTGGGGGAACTCTGAAGCTTCTGGTGGCTGGAA
CCTTGGTCATCTTAAAAATCCTTCAGGTTTTAGCCTGTGCCCCAAGACA
AGGATTTTTCCAGAACTTCTACTTCAGTAGTACTGGTATGAGAAGTTT
CGGCAACTTCTCCCTGATCCCCAAGTCCCAATTACACGAACTCCAAGCGG
TTTGCTTCTNCCGCGTACCT

>Sequence 192

GAATGATGAAGCCCTCTACCGGGTGGCGGCCGCCGGGCAGGTACTTTTT
TTTTTTTTTTTTTTTTTTTTTCTGGCTTGAATAACAGCTGAAATAACTG
AATTTTCTACTTGAAACGTGTGTGCCTCTCCACTGAGGGGCCAAGGCCCT
GGAAATGTAAAGGGCAATCTTTGTTACAGAGGGGTTCAATTGCAGTGAAG
GGCGGGTTCTGCAAAGACAAACAGGTCTCACAGATAGTTGCCCCCGGTA
CCT

>Sequence 193

ACTGTACAGATCTAGTACTTTATCATACTTAATACGTGTGTATGTTTCAA
CAACGATTATCTGTATACAATTCTATAATTTATAGAAATATCTTATAAT
GGTTTGTATAATTACGTTTTATTAAATACANNNTANNATGGGGCGTTG
AATTAGATGGCCTATCGGGNGGCGGCCGAGGTACGCGGGGGCTGTAGTG
GCTTCGTCTTCGGTTTTCTCTTCTTCGCTAACGCCTCCCGGCTCTCGT
TAGCCTCCCCG

>Sequence 194

CGCGCATCTTGTGTCTATAGTTAAATCATCATCTCTGAGATCACTATTAA
TTGTACCGTATTGCAATTTCTTCAGATGATGATTGAACAATAGCTTATG
TGATATCATGTACGTCTGTTCTTCTCAANCCNTTGGGNCAGATGATTT
GGGAGACNCTCTCCGCGGAGGCGGCCGAGCGGCAGCTACAACAACCGCG
TCGCTCTCCGCTCAATTTCCAAGAGCCAGCTTTGAAGCCAAGTGCCCCCG
CGTACCT

>Sequence 195

AGGACGATGGTCGNANNTGCAGCNTTACCGCGGTGGCGGCCGGTGTGCTG
TGCTCAGCTGCCCTTCCAAAGGAGGAACAGATCGGCAAGTGCTCGACGCGT
GGCCGAAAATGCTGCCGAAGAAAGAAATAAAAAACCCTGAAACATGACGAG
AGTGTGTGAAAGTGTGGAATGCC

>Sequence 196

TGGATGATGCGCTACCGCGGGGCGGCCGAGGTACTTTGAGCTCATAAGC
TGGTATAAAATATCAAACATTTTGACTGTTTAAACAACCTCAAGATATGTT
TTGCAAAATTACAAAACATTATACAGGTGACTTAATTAATATCTACTCCA
ATTATACACAACACATCATGCTGAAGATTTAGATTTATTTGAAAACACTT
AGTCTAATTTATATTAGTGCAGAAAAATCACATTCAATAAACCAAAATTG
TAGAAGAGACAGATAAGTGTGTTTGTACATTTTCACACAAATATAATTT
GATATTTAATTAAGGGATGATGAA

>Sequence 197

TTCTATCGTATGTATATATCTATACATGTCTTATCTATGTGTCTATCTTT
TATTTGTTTTTGCATCTATATTATTTTAAATGCGTGTATATATCTATNT
ATTTTGGTGTATGCGTTCTCGNGTGGCGGCCGATGTACCTGCCTCACAGT
GCAGGGCGGTATGCCGCCAAACGCTTCCGCAAAGCTCAGTGTCCCATTTG
GGAGCGCTCACTAACTCCATGATGATGCA

>Sequence 198

CTTGCTCAGCCTTTCCAGGCCCTCTGATGAGCTCTCTAATCAGCAGGAC
CAAGGTGTGAATGTGGGAATGAACATGGATCCATCCCATTTGGATGGAGAA
GAAAGGTGGACAGCCTGTTCTGCTCTCATGTCAGCCTAGGGCTGGGAACA
GTTTGTGAGGACTTATCTGTTGTACCT

Table 2

quence 199

GTACTTGCTCAGCCTTTCCAGGCCCTCTGATGAGCTCTCTAATCAGC
GACCAAGGTGTGAAGTGGGAATGAACATGGATCCATCCCATTGGATGG
AAGAAAGGTGGACAGCCTGTTCTGCTCTCATGTACGCTAGGGCTGGG
CAGTTTGTGAGGACTTATCTGTTGTACCT

quence 200

AAAGATGGCCAGAGAGAAGCTGGAAGAAATAGATTGGGTGACATTTGG
TTATATTGAAGAAAGTTACGCCACAGAGTGTGAATAGTGGAAAAACCT
AGCATATGGAACTGAATGATCTTCGTGACCTGACACAATGTGTGTCC
TTCTTATTTGGAGAAGTTCACAAAGCGCTCTGGAAGACGGAGCAGGG
C

quence 201

GTCGTTGTTCTACTAAGTATATTACGTGTTCTTAATCTAGTATTATAC
GTTTCTAATACTCTCAATCTTATTTGTTATATTATAATTTGTT
TATATTATTATACATATCCAATANATCNATTATATGGTAGTTGTCCG
GGCGGCGGAGGTACTCGGGCAAAGAGGGTGACAAAGTTCAAGCTCAACA
TCAGAACTAAAGGAGCTGCTGACCGGGAGCTGCCAGCTTCTTGGGG
AAGGACAGATGAAGCT

quence 202

ACTGTGTTTATCTATTTTCATGTATCTGTAATCTATTTATCTATCTAT
ATCTTTTTTATCTTTATTTCTATTTTATCATATATTGTTTTATATAT
NCNNTTGGCTTTGTCTTTGGCGCTCTGGCTGCCGTGGTACTTGGGGCA
GAGAGGGTTTCAGAGGATCCTTGTGAAACACTAGTTAAAAAGATGACGA
GGGAGAAAGTGCAGAGGAAAGAAGGAAATTAGTCTGACTGGCTTTCTGT
TGCACCATTGATTCAATGGAGACTGGCGGGAGGAAATGGAAGACTAGG
TGGAGATGGGATGGGTGGGGCAAGGGATGGAAGGAAAAGGCAGACAA
AATGCGTTCATTTATAACAAGTAATATATATCAAAGACTTAAAGGAG
TAAAGACCAATCAGAAATAATTGGCAACTTTAATTCTTAGGAAGATCA
GTTCCCTCCAAACCTAATTGATGTTTTATTACTAAAAGCAAAGACCA
ATGGTACCTGCCCC

quence 203

TTTCTGTTTCAATTTTCTCATAATGGATCTATTTATTGTACTGTTTAT
TTCTATTTATTTTCTAAATTATTTATTATTTTATATATATTAATT
ATNTNCCNCTTNTTGGTGTTCAGTNAACCGNGTTGGCGGCCGCCCGGG
GGTACGCGGGGAAGTCTTTCTCTCTGTTCCCGGCCATCTTAGCGG
CTGTGTTGGTTGGGGCCGTCCTCCTAAGGCAGGAAGATGGTGGCC
AAAGAAGACGAAAAAGTCGCTGGAGTCGATCAACTCTAGGCTCCAAC
TTATGAAAAGTGGGAAGTACCT

quence 204

GATGTAGTTGATGCGCTCACCGCGGTGGCGGCCGAAAACTGATCAGAC
TCTCAGATCAAGGAAAAGATGGCCAGAGAGAAGCTGGAAGAAATAGAT
GGTGACATTTGGGGTTATATTGAAGAAGGTTACGCCACAGAGTGTGAA
GTGGAAAAACCTTCAGCATATGGAACTGAATGATCTTCGTGACCTGA
CAATGTGTGTCCTTGTCTTATTTGGAGAAGTTCACAAAGCGCTCTGG
GACGGAGCAGGGGACTGTCGTAGGGATCCTCAATGCCAACCCCATGAA
CCAAGGATGGTTCAGAGGAGGTGTGTTTATCTATCGATCATCCTCAGA
GTCTTAATTATGGGTGAAGCTCTTGACCTGGGAACCTGTAAAGCCAAG
GAAGAATGGAGAGCCGTGCACGCAGACTGTGAATTTGCGTGAAGTGA
ACCT

quence 205

ATGTGNTTTTGAAGCCTCTACCGGGTGGCGGCCGAAAACTGATCAGAC
TCTCAGATCAAGGAAAAGATGGCCAGAGAGAAGCTGGAAGAAATAGAT
GGTGACATTTGGGGTTATATTGAAGAAGGTTACGCCACAGAGTGTGAA
GTGGAAAAACCTTCAGCATATGGAACTGAATGATCTTCGTGACCTGA
CAATGTGTGTCCTTGTCTTATTTGGAGAAGTTCACAAAGCGCTCTGG
GACGGAGCAGGGGACTGTCGTAGGGATCCTCAATGCCAACCCCATGAA

Table 2

GCCCAAGGATGGTTTCAGAGGAGGTGTGTTTATCTATCGATCATCCTCAGA
AGGTCTTAATTATGGGTGAAGCTCTTGACCTGGGAACCTGTAAAGCCAAG
AAGAAGAATGGAGAGCCGTGCACGCAGACTGTGAATTTGCGTGACTGTGA
GTACCT

>Sequence 206

GGCGATGGATTGATGCGCTCTCCGCGGTGGCGGCCGAGGTA CTACAGTC
ACGCTCCTCTGAACCATCCTTGGGCTTCATGGGGTTGGCATTGAGGATCC
CTACGACAGTCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAAC TTCTCCA
AATAAGAACAAGGACACACATTGTGTGTCAGGTCACGAAGATCATTCAGTTT
CCATATGCTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCT
TCAATATAACCCCAAATGTCACCCAATCTATTTCTTCCAGCTTCTCTCTG
GCCATCTTTTCTTGATCTGAGACAGTCTGATCAGTTT

>Sequence 207

TGGATGATGAATTGAGCTCCCCGCGGTGGCGGCCGCCCGGCAGGTACATG
GTTCTTCTAGAAAGTGGTTCTTCTTAATGTGTTTCTTTTACCCCTTT
TCTTCTTCTTCTTACAGATGTTTCTTCTTCTTCTGCCACTTTTCTTCT
TCCTCTTCTTCAACTGAATAGGGTAAGTGTAAGGCACAACAAATTAACA
CTGTATCAGATCTCATTCTTCCAAAAACGTTTGAGTCTAGTTTTTTTCT
TGTCATTCTCATCAACTACCCAATGTTTGTGTTTGTATTTATAATTGG
GAAGGTTCTCCAAGGCCTACCACTAACTTTAACGAATGATATAGATAGAG
CTCAGAGCAATCTTCTCAGGATCATGAAGTCATGTATAAAAAATCAGGATT
AAAACAAAGGTCATCTGATCTCCAATCATTATTGGGAAGAAAGTCAATTA
TATTAGAAATGGTTAAGAGCTTGCACTCTGAAGTCAGACGGCCTGGGTTT
AATCTACCTGTGCAACCCTGAAAAATTGTATTTACCCCTTGGTGAAGCTC
CCTATCT

>Sequence 208

GGTGATGAATCCACGATCCCTCACCGCGGTGGCGGCCGCCCGGCAGGAC
ATGGTTCTTCTTAGAAAGTGGTTCTTCTTAATGTGTTTCTTTTACCCCT
TTTTCTTCTTCTTCTTACAGATGTTTCTTCTTCTGCTGCTGCCACTTTTCT
TCTTCTTCTTCTTCAACTGAATAGGGTAAGTGTAAGGCACAACAAATTA
ACACTGTATCAGATCTCATTCCTTCCAAAAACGTTTGAGTCTAGTTTTT
TTCTGTCAATTCTCATCAACTACCCAATGTTTGTGTTTGTATTTATAAT
TGGGAAGGTTCTCCAAGGCCTACCACTAACTTTAACGAATGATATAGATA
GAGCTCAGAGCAATCTTCTCAGGATCATGAAGTCATGTATAAAAAATCAGG
ATTAAAAACAAAGGTCATCTGATCTCCAATCATTATTGGGAAGAAAGTCAA
TTATATTAGAAATGGTTAAGAGCTTGCACTCTGAAGTCAGACGGCCTGGG
TTAATCTACCTGCTGCAACCCTGAAAAATTGTATTTACCCCTTGGTGAAG
CTTCTATCTATAAAAACTTAAGAAATGTCTTATCTTACTGGACTGTTACTG
ATTTAAAAAGAT

>Sequence 209

CATACTATATAATTACGATATAATGATTATATCGATCTTCTAACTTA
ACTATGTATATAATTATAAAAAATAATTAATACTACGATGAGTATATCTTA
TGATCAACTACCAAATCTGTATGATACGTATCTCCACCGCGGCGGCGGA
CGAGGTACACGACATAGGCACATGTGCAAAACACAAAGAAGGTGGGCTGCT
GCTTCTTCTATCTGCCCTAGACCAGGCTCCTTTGCTTCACGTAAGATG
GAGACTGTCCCATTCCTCTGAAGTTGCTGGAAGGACATTTCCAGGAAGA
AACAAATTCCTCACTGCCTATAAACTGTAGTCACATGTGGGATAGTCAATA
GAACATGAGAATCAGAACAATCTGGGCAAATGGGTATGGCAAGAATGGGA
ACACCACAACAGGACAGATGCCAACTCTCATTTCATGCCAGGCCTTTTGGC
ATATGGGTGCCTTCTGTGCTTCTTTCCACCTATTCCTTCAGTCTCAACA
ATCTCTTTGACCCTGACCGGGCG

>Sequence 210

GGGATGTGATTTGCTCACCGCGGTGGCGGCCGAGGTA CTACAGTCACG
CTCCTCTGAACCATCCTTGGGCTTCATGGGGTTGGCATTGAGGATCCCTA
CGACAGTCCCTGCTCCGTCTTCCAGAGCGCGGTGTGAAC TTCTCCAAT
AAGAACAAGGACACACATTGTGTGTCAGGTCACGAAGATCATTCAGTTTCCA

Table 2

TATGCTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTCA
ATATAACCCCAATGTCACCCAATCTATTTCTTCCAGCTTCTCTCTGGCC
ATCTTTTCTTGATCTGAGACAGTCTGATCAGTTTT

>Sequence 211

TGGGCTATGATGTCGCTCACCGCGGTGGCGGCCGAGGTACTCACAGTCAC
GCTCCTCTGAACCATCCTTGGGCTTCATGGGGTTGGCATTGAGGATCCCT
ACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCGGTGTGAACCTTCTCCAAA
TAAGAACAAGGACACACATTGTGTCAGGTACGAAGATCATTCAAGTTTCC
ATATGCTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTC
AATATAACCCCAATG

>Sequence 212

CAGTCTACACTAGTNTCTCTTTTCATNATCTTGTTATAGATGTATAACT
ATCATCCTTCTGTTCACATATACCTTATTGCTGTATTATGGATATACATA
TATCAATTTACATTAGTTAGAATTTTATGTCTATAAACAACCAAGACGAT
GATTTTCGAGCCCTTCACCGCGNGGCGGCCCGCCGCGGAGGTACTTTTTA
AATTTTTTTTTTCTGTAGAGACGAGGTCTTTCTATGCTGTTTCAGGCTGA
ACTCATGGGTTTATTGGGGATGGCTAATGGATGACATTGGCGGTGGTCC
TTGATACCAGATAAGCCCTCAGTGTGAAGCAGCTCTTATTTTCTTGTC
TTGAGATTGCTCTGGAATGGAAATTAGGCTTTTTTGAAGGTGTGACCCTT
TTTGTTCAATTTCTTCAGCAGTTACTTTTTAATTTTAAATGTTTGACACA
CAGTCTCTGATAAATGATCATTACCAATCACCGATTACTCTCCTTGCTC
TGTTAAGTGTGACACTGTCCCTTTGAGAATCTGGCGACAGCTATGTATCC
CATAACCACACACCCCAAAAAAAAAAATTTATGTCTGGTTCCAGGAGTT
ACCTTTTATGAGAAGTCCATTTGTGAAGAACCTGGATGTTTCAGAGAAGTT
CCTGGGAAACACTGGAAGAAATAAAGAGGCCGGCCGGGGGCTCATGC
TTGGAATCCCCACACTTTGGGAGGCTTAGGTGGGCAATAAACTGGGGTC
AGGAGT

>Sequence 213

TCTCCCTCGTACTCGATCATCAGAGTATACATATGAGTGTACTCTANTAC
TACTACGATCTCTATACTAAAGTTATCCTATTCACTTTAGTGCCATCTGG
TTCTATATGAAACTCTAATATAATCATAGCGTGTTATATATACTATAT
ACATTACCATGGCGGTAGATTGGAAGCCCTATCCGCGGAGGCGGCCGTTT
GAGAAGCCAGCGCTACCCACCCGGGTCTCTGTGCATTGACCTTTGGGT
GCTGACTTGGAGAAAAGCACAAACACGACCAGTCCCCCGCGTACCT

>Sequence 214

TGGCGATGTTTGTATCGAGCTCACCGCGGTGGCGGCCGAGGTACATGCCTA
CAGATAGTCCCACTACTCGGGAGGCTGAGGCAGGAGAATCGCTTGAACC
CAAGAGGCGTAAGTTGCAGTGAGCCGAGATCATGGCACTGCACTCCAGCC
TGGGTGACAGAGAGAGACTCCATAAGAAAAAAGAAAAAAGGGGGCA
AAAAGAAAACAGATGAAACCAATGTGAATAATTTATTTTAACACAATATAC
CTAACATATTTTATTCAATATCTAACCAAGTATAAAAAATTTACTTGTTT
TGCCCTCTAGAGATAGTAAGCTCCTTAAGTAAACAGAAGTAATACCTGAT
TAATTAGAATTCCCAACCTCATCAAGTGTGTGCTTATATAGAAGAAACC
CAGTAAATGTTTGTGATTGAAAGATATTAATACTCTTGCTTGATGAGA
GTGAGGAAAAAGGTATTAGTATTGGCTTTTACAACCGCCTGGACCTGCC
CGGGCGGGCGCTCTAGACTAGGGGA

>Sequence 215

TTTAATGTGCATCTCGCAGGGCGGNGGCGGCCGAGGTACTTTGGAGTCC
CCTGGTTTCTAAGAAATTGCCGTTGACTCTTTCTTTGGCTTCTGCTGGCAC
GGTAACCAGACTCCCTACAACTGCACTCTTTGTCTTTGTCTATGGAAGCCG
CGAGCGTAGAGGTTCCGCGTGCTCTGCCGGAAGTGTGAGCAGGTCACTGGGT
CCTTTACACTTGTGAATTCGAAGCTTGCCAGATGTATCCTCAATGCATTG
CCACTTCTGCCCCGTTGTTACAGGCTGTCTGGTACGAGATCTCCGACC
AGTCTGGGGGCGCTGGCGGCCTGCGCAGCCACCTCAAGATCACAGATTCT
GCTGGCCATATTCTCTACTCCAAAGAGGATGCAACCAAGGGGAAATTTGC
CTTTACCACTGAAGATTATGACATGTTTGAAGTGTGTTTTGAGAGCAAGG

Table 2

GAACAGGGCGGATACCTGACCAACTCGTGATCCTAGACATGAAGCATGGA
GTGGAGGCGAAAAATTACGAAGAGATTGCAAAAGTTGAGAAGCTCAAACC
ATTAGAGGTAGAGCTGCGACGCCTAGAAGACCTTTCAGAACTATTGTTA
ATGATCTTGCTACATGAAGAAGAGAGAAGAGGAGATG

>Sequence 216

GGGTGTTGATAGATCGAGCTCCACCGGGTGGCGGCCGAGGTACTTTGGAG
TCCCCTGGTTTCTAAGAATTGCCGTTGACTCTTTCTTTGGCTTCTGCTGG
CACGGTAACCAGACTCCCTACAAGTGCCTTTGTCTTTGTCATGGAAG
CCGCGAGCGTAGAGGTCCGCGTGTCTGCCGACTGTGAGCAGGTCACT
GGGTCTTTACACTTGTGAATTCGAAGCTTGCCAGATGTATCCTCAATGC
ATTGCCACTTCTGCCCCGGTTGTTACAGGCTGTCTGGTACGAGATCTCC
GACCAGTCTGGGGCGCTGGCGGCCTGCGCAGCCACCTCAAGATCACAGA
TTCTGCTGGCCATATTCTCTACTCCAAAGAGGATGCAACCAAGGGGAAAT
TTGCCCTTACCCTGAAGATTATGACATGTTTGAAGTGTGTTTTGAGAGC
AAGGGAACAGGGCGGATACCTGACCACTCGTGATCCTAGACATGAACATG
GAGTGGAGGCGAAAAATTACGAA

>Sequence 217

TGGTNTACCGTGGACCTCACCGCGNGGCGGCCGAGGTACTATCAAACAA
CATGATACAATTTAAATGTGTCATAGCAACTACTAGTGGTCACTGAAAT
CCATTTTCCCCTCCTTACAGTAAGAGTTTGTAGCTGAATGAGTGGCCACT
CATAGAGAGATTGCATTTCTGGCTTCCCTTGACCCATAGGTAGCCATGG
GACAAAGTTCTAACCAGGGGGGTCCAATCTTTGGCTTCCCTGGGACA
CACTGGAAGAAGAAGAAATTGTCTTGGGCCACACATAAAATACACTGGCAT
CAAGGATAGCTGATGAGCAAAAAAAAAAAAAAAAAAAGTACCTGCCC
G

>Sequence 218

GGGGNATATGTGCGCTCCCGCGGTGGCGGCCGAGGTACCATCCTGTTCCA
CAGAGCCATTGCCTATTCCTAAATTGAATCCGACTGGGCGTGCCCTCCT
CGGAACACAACAGTAGACCTTAATAGTGGAACATCGATGTGCCTCCCAA
CATGACAAGCTGGGCCAGCTTTCATAATGGTGTGCTGTGCCTGAAGA
TAGCTCCTGCCTCCCAGATCGACTCAGCTTGGATTGTTACAATAAGCCC
AAGCATGTGTGAGTTGGCCAATGAGTATGCTGGCTTCTCATGGCTCTGGG
TTTGAATGGGCACCTTACCAAGCTGGCGACTCTCAATATCCATGACTACT
TGACCAAGGGCCATGAAATGACAAGCATTGGACTGCTACTTGGTGTCTTCT
GCTGCAAACTAGGCACCATGGATATGTCTATTACTCGGCTTCTTAGCAT
TCACATTCCTGCTCTTACCCCAACGTCCACAGAGCTGGATGTTCTC
ACAATGTCCAAGTGGCTGCAAGTGGTTGGCATTGGCCTTGATATCAAGGG
ACAGCTCACAGACATACTGCAGAAAGTCTGTTTGCTGAGAA

>Sequence 219

CACTACTCATCTCATATAACTCGATTTGATCATTATATACTAAATACTTCT
CATTTTTTTTATTTTACTACCAAATCTTTATTTCTTATATAAAATAT
TTAAAAATACNCANAGGGGGCGTTGGCTTGAGGCCCTCCGCGNGGGCG
GCCGNTATTGGTGGTGAAGACCCGTAGCAACAGTGGGCATGTCTTCTCGC
GGTGCATCGGTTTCTCTGGCTCCTTTTTAA

>Sequence 220

GATATGTTGAACCNITTAGAGACGCTTCCGCGGTGGCGGCCGAGGTACC
ATGATATCATGTATCCTGCTTGGACATTTTGGGAAGGGGGACCTGCTGTT
TGGCCAAATTTATCCTACAGGTCTTGGACGGTGGGACCTCTTCAGAGAAGA
TCTGGTAAGGTCAAGCAGCAGTGGCCATGGAAAAAGAAAACTCTACAG
CATATTTCCGAGGATCAAGGACAAGTCCAGAACGAGATCCTCTCATTTCTT
CTGTCTCGGAAAAACCCAAAACCTTGTGATGCAGAATACACCAAAAACCA
GGCCTGGAAATCTATGAAAGATACCTTAGGAAAAGCCAGCTGCTAAGGATG
TCCATCTTGTGGATCACTGCAAAATACAAGTATCTGTTAATTTTCGAGGC
GTAGCTGCAAGTTTCCGGTTTAAACACCTCTTCTGTGTGGCTCACTTGT
TTCCATGTTGGTGTGAGTGGCTAGAATCTTCTATCCACAGCTGAAGC
CATGGGTTCACTATATCCCAATCAAAACAGATCTCTCCAATGTCCAAGAG

Table 2

CTGTTACAATTTGTAAAAGCAAAATGATGATGTAGCTCAAGAGATTGCTGA
AAGGTGAAGCCAGTTTATTATGT

>Sequence 221

CATGCATCTCTCTNTGTCCATCACTATTTTGTAAATATCGATATTATAATG
TCGATAAGTATCTNTTTGTGTATGTATTTTATACTGTCTATCGATCTATC
TGTTATTATNTAATAACNANANCAGANTTGTGACCATTTTCTGAGGCNC
GTCGCCCGGGCAGGTACAGCAACAAGAATCAGATGCTCTTTAGAGATCCT
CCATTTCACTACTCTAACATTCTTCAATGTGGTTCCAGCCACGCATAGTC
ATATAGATACTACATATTCAAAGATAACTTACTGAAGCTTGTTCACAGAA
CCAAGCTTTCTCTGTAGCTCTTCTCCCTACCCCGCACTTTTGAAG
TATTACCCCAAAATGCTCTTCAGGATTTAAATAACAATTTTAAAAAGACA
CTTAACACCACAAAAATGGAATTTGCTGGCATGACGCGAACAATACGGTTA
CTCCAGATGCTGTATTCAAACGTATGGGTCCGTTGAAAAAATAGATATA
ACCATTTTCTCATAGACAGCATCTACTTTATCACCATTCTCTGGGAAGT
CTTCTTCTATTAGTCTCGGATAGTCTTTATCCATAATATGGCTAGTATCA
TCATATCTCCAGACCTGGTTTCTGAGAACAGGAGAGTCTTGCTGTATC
CTCAAAGTGAAACAGCTGCACTTATCTTCTTAACCTCTTTTGAAGACCCA
GTTCAAGATATTTTTTGGGATAACCTTCCAAATGTCATAACCATT

>Sequence 222

TCATCACTCACATTCAGTATCCTCTCATTTGTTAGTCTAATTACAATCGTT
CTAATATCACACTCGTATTTTATAATATGTTATAACATGTTGACTTATGT
TCTAGGAGATATCACTTATATTAATGCACTTAGTGGGGTTGATTTCGAGTC
ACACTCCGCGGAGGCGGCCGAGGTACGCGGGGAGTGTAACATATGGCCGGC
CTGCCGAACGAAAGTGAACAGGAGCCGCTCTTAGGCGACACACCTGGAAG
CAGAGAATGGGACATTTTAGAGACTGAAGAGCATTATAAGAGCCGATGGA
GATCTATTAGGATTTTATATCTTACTATGTTTCTCAGCAGTGTAGGGTTT
TCTGTAGTGATGATGTCATATGGCCATATCTCCAAAAGATTGATCCGAC
AGCTGATACAAGTTTTTGGGCTGGGTTATTGCTTCATATAGTCTTGGCC
AAATGGTAGCTTCACCTATATTTGGTTTATGGTCTAATTATAGACCAAGA
AAAGAGCCTCTTATTGTCTCCATCTTGATTTCCGTGGCAGCCAACCTGCCT
CTATGCATATCTTCACATCCAGCTTCTCATAATAAACTACTACATGCTGG
TTGCTCGTGGATTGTTGGGAATTGGAGCAGTTTTTCAGAAGCTGTTTACA
TTCCTTGGAGAAAAAGTGTGACCTGGGATGTGATTAACTGCAGATAAAC
ATGGTTCACACCCCGTTACTTAGCGCCTTC

>Sequence 223

TGAGGTTGATTTCGACTCCGNGTGGCGGCCGGAGTGATGCCATCTGCAGTT
TTGTGATCTGCAATGATTCTTCCCTTCGAGGTCAGCCCATTTATCTTTAAT
CCTGACTTTTTTGTGGAGAACTCCGACATGAGAAACCTGAGATTTTCAC
TGAGTTGGTGGTCAGCAATATCAAAAGGCTCATCGATTTACCTGGAAGT
AGTTGGCTCAGCTGATGGGGAAAGTGGACCTTAAGTTGCCTGGCGGGGCT
GGCCAGCATCAGGATTCTTCCGGTCTCTCATGTCTCTCAAGCGAAAGGA
AAAAGGAGTGATATTTGGGTCCCACTGACGGAGGAAGGCATTGCCCAGA
TATACCAACTGATTGAGTATCTACACAAAACTTGCGAGTAGAGGGTTG
TTTAGAGTACCT

>Sequence 224

TGGAATGTTGGACCTCTTCCAAGGCGCGGCCGCCGGGCAGGTAATCCCT
GTAAAGGGGAATTTCCATGCCGTCTACAGGGATGACCTGAAGAAATTGCT
AGAGACCGAGTGTCTCAGTATATCAGGAAAAAGGGTGCAGACGTCTGGT
TCAAAGAGTTGGATATCAACACTGATGGTGCAAGTAACTTCCAGGAGTTC
CTCATTCTGGTGATAAAGATGGGCGTGGCAGCCCAAAAAAGCCATGA
AGAAAGCCACAAAGAGTAGCTGAGTTACTGGGCCAGAGGCTGGGCCCT
GGACATGTACAGACTCTCATTTTATGATGTATCCTACTGCATCAGGACAT
TTGTGTCAATGTGAGGTGACGAGGGGAAATGAAAGTGATGAGACGATGAG
AGGAGTGAAATACCAAGGACGCCATACTAGGAAACCCAGGTCTATTTGTT
ATCAGAGTAAGGATCAAGCCAGATAGCCTGTTATGTAATTTCTCCGATAA
AAGATTTTGAAAGCAGGTGCTGTGGGCATCTGTATGGGGAATCGCACTCA

Table 2

TAGAATTATTTTCATTTGTAAATATTTGGTATCAGGCCAAGCAAGGGAAA
GAAGCTTTACTGTATTACCATCTTT
>Sequence 225
GGGCGATGATTGGTGCCTCCCCGCGGTGGCGGCCGAGGTACTCACAGTC
ACGCAAATTCACAGTCTGCGTGACGGCTCTCCATTCTTCTTCTTGGCTT
TACAGGTTCCCAGGTCAAGAGCTTCAACCATAATTAAGACCTTCTGAGGA
TGATCGATAGATAAACACACCTCCTCTGAACCATCCTTGGGCTTCATGGG
GTTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCG
CTTTGTGAACCTTCTCCAAATAAGAACAAGGACACACATTGTGTCAAGTCA
CGAAGATCATTCAGTTTCCATATGCTGAAGGTTTTTCCACTATTCACACT
CTGTGGCGTAACCTTCTTCAATATAACCCCAA
>Sequence 226
TTGGAGCTACCGCGGTGGCGGCCGCGGCGAGGTACGCGGGATGGATA
GCCGCTTGACAGGAGATCCGGGAGCGGCAGAAAGTTACGGCGACAGCTCCTC
GCGCAGCAGTTGGGAGCTGAAAGTGCCGACAGCATTGGTGCCGTGTTAAA
TAGCAAAGATGAGCAGAGAGAAATTGCTGAAACAAGAGAACTTGCAGGG
CTTCCTATGATACCTCTGCTCCAAATGCAAAACGTAAGTATCTGGATGAA
GGAGAGACAGATGAGGACAAATGGAAGAATATAAGGATGAACTAGAAAT
GCAACAGGATGAAGCTTATCATCAATTCATTGTATAAAAAATAAGAGATT
TTCCTGAGAGAACTGATTTCAAATGCTTCTGATGCTTTAGATAAGATAAG
GCTAATATCACTGACTGATGAAAATG
>Sequence 227
TGGTTGTTCCNNTANNATTTGAAGCGCTACCGCGGTGGCGGCCGCCCCG
GGCAGGTACGCAAAGTGATTACAGAGAACGCTGGGGCTCACAGGCGCTGTA
GCAAACGTGCAACTCTTGAGGAACACTTAAGACGCCACCATTCAGAACAC
AAAAAGCTACAGAAGGTCCAGGCTACTGAAAAGCATCAAGACCAAGCTGT
TACTAGCTCTGCGCATCACAGAGGGGGGCATGGTGTTCACATGGGAAAT
TGTTAAACAGAAATCAGAGGAGCCATCGGTGTCAATACCCTTCCTACAA
ACTGCATTATTAAGAAGTTCAGGGAGTCTTGGGCACAGACCAAGCCAGGA
GATGGATAAAATG
>Sequence 228
GCATAGGAAAGACTTGGCTGTTGGGAGGGGCGTGTCTTACACCTTAGGAA
GAATCCTTAGCTGTACTTTCTGTCTCTCCTGGAGCTCCCTCCTACCCCC
TAGCTGAGTAGGCCAGGTTTTGGTGCAAAATCTCCACATTGGCAAAGTT
CCTGCATATGCTGCGCAGTATGTGCCTTGAATAAAAAATCCTGAAGATTAG
ATGGTTCAGGCTGCATCATCCCAAAGCAAAGAGCACCTCTTGAAGCTCA
CCTGCCCGGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTCAGTATG
TAGCTTTAAACAGTTACATATAACATGGAACAGTATGACATGAAAAGAG
AGAGGTTTATAGAGGGAGAAATGGAATTGGGACAGCCCCTGCTTACCGAGG
TTGCCCTCCAGTCCCTTGATTCTTTTGGATCCCAACTTCCTGTTTGGCTG
AAAACGGCTGGAGCTTGCTCCTTGCAATCTTGGCCTTACAAAACCTGGACT
TCTGGCCCATCTTTAATTTTGATTTTTTCTTAGGAACCCCGTTAAAGGT
TTTGTGGGAG
>Sequence 229
TGATGATTGAGACCTCTCCGCGGGCGGCCGAGGTACTACAGGATGATGG
CTTTCTCTCTCTGGGTACAGGCAGGGCCATGGAGTTGGGGAGAGAAT
GTCTAAACCTCTGGGGTATGAACGGGTAGATGAAATTATTTGGGTGAAG
ACAAATCAACTGCAACGCATCATTCGGACAGGCCGTACCTGCCCGGGCGG
TCGAGCGGCCGCCCGGGCAGGTACTTNNTTTTTTTTTTTTTTTTTTTTT
TATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGAACCTGTTACATTGGT
CAGTTTTTACTTGTAAAAAGTATTATAGAAGAGTTTATTGGAATGTTAT
TTTATTAAGCCATTTTCATGGGTATTTTTTTTTTAAAGTTTAAGAAGTTT
TTACAACAGGCTGGGGGGGGGGGTTACACCTGGCAATCCAGCACTTTGG
GAGGCCGGGGCGGGCAAATACCTGAGGTGGGAGGTTAAGAACCGGCCTG
CCCAAATGGGGAAACCTTTGTTTTTTCTTTAAATTCCCAATTAATTTCA
AAATTTAGGTCCTTGGGCCGTTTAGAAACAGGGGATCCCCCGCTTGAG

Table 2

GAATTCGATTTAAGCTTATTGAACCCGGACCTTGAGGGGGGGG
>Sequence 230
ACGAACTGTGGCTGCACCATCTGTCTTCATTTTCCCGCCATTGAAGAGC
AGTTGAAATCTGGAAGTGCCTTTGTTGGGTGCCTGCTGGATAAATTCTAT
CCAGAAGGGCCAAAGACCCTT
>Sequence 231
TCGTTGTGTCTTCGGTCTCTTTGTGTCTTCTTATCTTTTCGTTCTTTTC
TGTGTTCTCGTCTTTGTACTTTTTTTTCTATTTTCGTCTCACACTAGAAA
ANNNTTATGCTTTTATCAACTCCCCGCGGTGGCGGCCGAGGTACGACGT
TTCCATCAGCTTGTCTGTTTCATTCCCTGATGTTACGAGCAATATGACCA
TCTTCTGTATTCTGGAACTGACAAGACGCGGCTTTTATCTTCACCT
>Sequence 232
TGCACGTAGTCGGAGCGCTCACCGCGGTGGCGGCCGCCCGGGCAGGTACT
TTATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTAAAAAAAAAAAAAGATAT
TTTAATATATTCAGATCCACAAATATGAAATAAACTAAGTAGAGCTGGT
ATTCATTTACACATAATTATCTTATACCGTTTGAATAAGAATTTGGGGC
ACGTTAGCAAACCAAAAGGCTCAAAAAGACGTCGAGATATTTAGTTCTTG
TCTCCCTCTACAAATGTGAAGCACTCTTTTATCCGGCATTCTAGGGGAG
TTCCTATTTTCAAATTTGCAAATCAATTTCTGGTGCTAAGCAATCTCAAAA
AAAACATTTACTAAAAACCAGAGGAAAAAAATCTTATAACTTTGGGAGGC
TGAGGCAGATGGATCACTGAGATCAGGAGTTGAGACCAGCTTGGCCAAC
ATGATGAAACCCCTTTTTTTTTTAAATTCAAAAGGTTTCTTGGTTGT
GGTGGCAGGGGCTGGAGTCCAGCTTTTCCAAAGGCTTAGGGAGGAGAA
TTACTTGAACCTTTGAGGCGGGGTTGCAATGAGTTAAATCTCCCTAT
TGACTCCAACCTGGGAACAAGGGGAGACTTTGTTTTCAAAAAATAATTAA
AAATTAACCTTGT
>Sequence 233
TGTCCCCTCCCGCTCCACACTTACAACCTTCTACATTTCCGTCTCTCGTTC
TCTTGTGTTTTCGTCTGTGATTTTCTTGGTTGCTCATTGTTGTTCCCA
TNAATNANNNCANTAGCGTTTTTCGGCTCCCGNNGNGCGGCCCGCCGG
GCAGGACGCGGGGGCCAGTTCTCTTCGGGGACTAACTGCAACGGAGAGAC
TCAAGATGATTCCCTTTTTACCCATGTTTTCTCTACTATTGCTGCTTATT
GTAAACCTATAAACGCCAACAAATCATTATGACAAGATCTTGGCTCATAG
TCGTATCAGGGGTCTGGGACCAAGGCCCAAATGCTGTGCCCTTCAACAGA
TTTTGGGCACCAAAAAGAAATACTTACGCACTTGAAGAAGTGGTATAAA
AAGTCCATCTGTGGACAGAAAAACGACTGTGTTATATGAATGTTGCCCTGG
TTATATGAGAATGGAAGGAATGAAAGGCTGCCAGCAGTTTGGCCATTG
ACCATGTTTATGGCACTCTGGGCATCGGGGGAGCCACCACAACGCAACGC
TATTCTGACGCCTCAAACTGAGGGAGGAGATCGAGGGAAAGGGAATCCT
TACTTACTTTGGACCGAGTATGAGGCTTGGG
>Sequence 234
TTCTCGTGTCTCTCGTACATATANTCCATCTTTATAAAATCTCTCTGTTA
TCCTACCCTCTTCAAGTTCATCTATTATAAGTTGATCGTATTATTGTCTA
TATACGATATTTTTACATATTACTATCTCNCNNCTCACAGCTAGTTGGA
NCCATTTAGAGTCTCTTCGCGGAGGCGGCCCGCCGGGCAGGTACAGTAT
AGGTTGGTTTTGCCTGTTTTGACGCTTTATATATACGTAGACACACATAC
ACATGTATATATACACACACACATTTTACATATATATGAAACTGTATA
ATGTGTTTCGCTTCAGTGTCTGGCTGCTTTTACTCAACATTGTGAAATTAA
TTCCTGTTATCGTATATGGGATTAAATTTGTTTGCCTAGTTTTTGCCTT
CTCATTGCTTCTGAATTGGGGCAGCTTTGCCCTCAAGGGAAATTTAGCA
ATGCTCGGAGACATTTTTATTTTCATAATTTGGAGGGACATGGGGGAGG
TGTGCTACAGAACTTAGTAGGTAGAGGACAGGGTTAGTGCTGAACGTTCC
ACAGTACCT
>Sequence 235
TCTTTTCAATTTCTTGTATTCTCAATACATTGCTTGTATGTGTCGAGTTT
CTCTTCTCTTCGTCTTGAGTTATGTTGTTATTGATCGACTGTGCGTGATC

Table 2

GGTTTCTTTTCTATGTAAACGGCCACNNCANNNTTTCTTTGTTTCGAGTGA
CCGCGGNGGCGGCCGAGGACTTTTTTTTTTTTTTTTTTTTTTTTTTAT
AATAATTTTGTCAATTTTGTAGAGACAAGGTCTCCCATGTTGCCAGGCT
GGTCTCAAACCTCTAGGCTCAACTGATCCTCCTACCTCCACCTTTGCCTC
CCAATTATCCCCAATTGAGAGATGAAAATTCTGACAAGCTCTCAAACGTT
AACTGACTTGCCCATAAATGACAGTTCCAAAGTTATAAGGCTAGAAC

>Sequence 236

GCGAAACTAACCAGTGCTCCCTACACGCTGCTTTTCGCGCTCCCATTCCTC
CCACTCTTAGCTCGTTGCATATCCGACGATACTCTTTGGCGGTTTTGCT
TNCNCNTATTTTGTGGGACGCGTGGCCGAGCGGCGGCCCGCCGCGGCAGGT
ACCTACGCCACAGACAGCCAGAGGGAAAGCGACCCAGACAGCAGCCCTC
CTCGACAGGCCACCCCTGCAGCTCAGGCACCAAGAAAAACAGCCGATACTG
GCAGCCATTGCAGCTCCAACTGCAGAGGCAAGGCCAATTTAACTTTTC
AATTTACAGTCGATTTTGAAGAGCTTCTACATATCGGTTATGTAAATTCA
TATATGTAATTTTGAATCAGTTCTTATAAACAGCTCGATTAGTTTAG
CTAAATTTATAGTCTAGGTAGTATGTTACATTTGAACTTTTGTCTTAAGA
AAAGTTGACTGTTAGATATTTTCTACTGTAAAGAAATATACTTTTCTA
TTAAAGATCTGTACCT

>Sequence 237

GCAGTTTTGTGATCTGCAATGATTCTTCCCTTCGAGGTCAGCCCATTATC
TTTAATCTGACTTTTTTGTGGAGAACTCCGACATGAGAAACCTGAGAT
TTTCACTGAGTTGGTGGTCAGCAATATCACAAGGCTCATCGATTTACCTG
GAACTGAGTTGGCTCAGCTGATGGGGGAAGTGGACCTTAAGTTGCCTGGC
GGGGCTGGCCAGCATCAGGATTCTTCCGGTCTCTCATGTCTCTCAAGCG
AAAGGAAAAAGGAGTGATATTTGGGTCCCCACTGACGGAGGAAGGCATTG
CCCAGATATACCACTGATTGAGTATCTACACAAAACTTGCGAGTAGAG
GGTTTGTTAGAGTACCT

>Sequence 238

GGCTATGATCAGCTCACCGCGGTGGCGGCCGAGGTACGCGGGGATTGTGT
GCAAAATCAGAGAGGGGTGCAAGATCCTGATTTTTCAGGAGTTCAAGCGA
CAATGGCAGCCCAATACGGGAGTATGAGCTTCAACCCAGCACACCAGGG
GCCAGTTATGGGCTGGAAGGCAAGAGCCAGAAATCCCAATTGAGAAT
TGTGTTAGTGGGTAAAACCGGAGCAGGAAAAAGTGCAACAGGAAACAGCA
TCCTTGGCCGGAAAGTGTTCATTCTGGCACTGCAGCAAAATCCATTACC
AAGAAGTGTGAGAAACGCAGCAGCTCATGGAAGGAAACAGAACTTGTCTG
AGTTGACACACCAGGCATTTTCGACACAGAGGTGCCAATGCTGAAACGT
CCAAGGAGATTATTCGCTGCATTCTTCTGACCTCCCCAGGGCCTTATGCT
CTGGCTTTGGTGGTTCCACTGGGCGGTTCACTGAGGAAGAGCACCAAGC
CCCAGAGAAGATCTTGAAATGTTTGAGAGAGGACTTGAAGTTTCT

>Sequence 239

CTCTTGTTCTTCTCCCCATTTTGAATCCTAAACCACTCTCTGCATAACT
TCCATTGCTTCTTATCATCCTAATTCTTCTACTCTTCTGCTCTTATTC
TTTCCCCNNNCANTTGCCTTGTTCGACTCCCCGCGGTGGCGGCCGAGGT
ACCAGTTAAGTGAACAGCTCGTCTAGGTCTGCTTTTGTAAACCCCAAATA
CAATTAGCACTTCTCTGCTGGTATTCCTGGGCGCTTAAATTATCTAGA
GGCCAGGAGGCAAGCCTAGCACGTAACAAAGTATGTGCTTTGTAACCTGC
TGATTAATTCAGTTTCTTAACTAGGCAGAGCAGGTATCAGTGTATCTAA
TTCACACTATTAATACACTGTCTTGCTGAAGAGTCTGACCTGCCAGAAC
CCCGTTATGGCTAGCCAGGGAAGCAGTAACTGCAAGCAGAGAAAAAGG
GGCAGCTAAGATGAGGCTAGTGCTGGCTGAGTCCAGTTAGGTCTGTTAC
TGTTCTGTTCCAACTATAAATCCAGGATGACTGTTACTCAGATTAGTGC
TATGTAGAAAATAGAATGCACAGCCAAAAACATAATTGGGGATGACTGG
CAGCACCTTTTTTCCCTTCTTAAAGAGGCTAACTG

>Sequence 240

TCATTTTCATGAAATTTTATTCATATTATTTTTCATAAACTCCATAGTTCT
TTCTATGTCTACTAGTTTTATATTATCTATTTCAACTTCTTATTTTCTT

Table 2

AAAAAATATNANTTGCCGTCTGGCGCCCTCACCAGGGGGCGGCCGAGGTAC
TTTTTTTTTTTTTTTTTTGGTATGACTATGAAGGCTAGTGGTCTTTTTAT
TAGCTATCAAGTTCATTTAACAGACAAAAAATTCAGTTCAATGGGGGCAT
TAAAATAGGAAGAAATTAACAATAGTTCATTAATCAATCTTTCAGCTGTTT
CTATTTTATCACAATAACTTTTCTATAATTGAGAGATCCATGAGGAAGT
CTTGAAGAAGACGTATGTTTCTTCAATTCCATAAAACATTCAGCCAAAA
TAATAAAAGAGGCGCTATTACTTTGTTTGGGTGAATGATATGCAGGCTA
GGCTTTGCTGTAGTACCT
>Sequence 241
GCGGTGGCGGCCGGTGTGCTGTGCTCAGCTGCCTTCCAAGGAGGAACAGA
TCGGCAAGTGCTCGACGCGTGGCCGAAAATGCTGCCGAAGAAAGAAATAA
AAACCCTGAAACATGACGAGAGTGTGTAAAGTGTGGAATGCCTTCTTA
AAGTTTATAAAAGTAAAATCAAATTACATTTTTTTTCCAAAAA
AAAAAGTACCT
>Sequence 242
GATCAGACTGTCTCAGATCAAGGAAAAGATGGCCAGAGAGAAGCTGGAAG
AAATAGATTGGGTGACATTTGGGGTTATATTGAAGAAGGTTACGCCACAG
AGTGTGAATAGTGGAAAAACCTTCAGCATATGGAACTGAATGATCTTCG
TGACCTGACACAATGTGTGCTCTGTTCTTATTGGAGAAGTTCACAAAG
CGCTCTGGAAGACGGAGCAGGGGAC
>Sequence 243
TGGGCCCTTTGCCTCACCAGGGGGCGGCCGAGGTACGCGGGGTGCTGGGA
TTACAGGCACGAGCCAGTGCGCCAGCTGCCTCTGTTCTTTTATTAGCT
GTTCTGGAAGTGTGGGGCTCCTTGGGCAGATGCTGTATTATGGGGATAAGC
CACACACTTTTTGAACTGGCCCGGTGAGGGGGACATAACCATTTCCTGT
GCCACCCCATCAATCCCCACCTATTCTGAGTGTAGGCTCCTCCCTGCTT
GAGTAATGGCCACAGATCTTGGCTCGGCACTCCTAAGCTGCATGTTGAAT
TCCTGGGACAACAAGACTGGCTTGTGGTTCATTCTCCAGATCCTTGGGT
TGGCTTCTGGGTGCACTAGGAGATCTGAAATGCTCTCAGGCCACAGGAA
AGTACTGGAAGTAAAGTCTGACTCTAAAGAAGATGAAAATCTAGTAATTA
ATGAAGTAATAAATCTCCCAAAGGAAAAAACGCAAGGTAGAACATCAG
ACAGCTTGTGCTTGTAGTCTCAATGCACGCAAGGATCTGAANAGTGTTC
TCAGAAGACTACTAGAAGAGACGAAACGAACCCTGTGGCTGTAACCTTTG
AGTGAAAAGACAAAAATGGCTCTTCGTGGTCCCAAAAAAG
>Sequence 244
GTCTTTTAGTAGGGATAAGGTTTCACCATGTTGGCCAGCTGGTCTTTAA
CTCCTGACCTCGAGGGATCCACCCACCTCGGCCCTCCAGTGTGCTGGGAT
TACAGGCATGAGCCACGGCACCCGGCCCTGGTTTGTCTTCTGAACCATGT
CAATACAGTACCACACAGTTGCTATCTCTTGAACATCTTTCATTA
ATCACCGTCTAGTTTGAGAATACTTTTAAGCCTGCTGGCCTCCTTTGGGG
CATCTTTTTCTCTTTTCAGCACGCATCTTCTTTTCCACTTACTCCGT
AAGCTTTTAGCCATGTTTACCTTGAGGGCCGAAGTTAACTTCAGCGGGA
GTGAACGACAGGGGTGGGCTCCACTTTATCCAGTGCCTCGGAAGCCGGA
GGGCCCCACCAAAAGAGCAAGGGGAACCCTCGCCCTCAACAAGGCCTG
CATCTCCGACTGGAGCTCAAGTATAGCCAGCGAGTGTCAAGAAACGAA
ATTCTTCAGGGTGGCGGAATCAAGCCCAAGTCCCATGTTTACTGACCGG
>Sequence 245
GGGCGATTAGCCCTGCTCACCAGGGTGGCGGCCGCCCGGGCAGGTACAA
TTGCTTGAGTGAGTTCATGGTCCGTAGGAGGATGACCACTAGCCACCAC
CTTCCACTGTTTCTACAGTCTGGCCAGCAAGTTTGGAGTTAAGGCTTCA
AAATCCTGCAGCACACATGCCGAAGGTATTGCCAGGATCTTGTGGGT
CTCGTTGTAGTAGCAGTAGCGAATGTTTGTGGCTGCTATGAAGAGTTCAA
AGGGTCTGCTCTTATGTTTCAAGTGTCCATTCTTTATTTTCTTCTGC
AGCTGTCGCAATCTTTTCTTTCGGTGACTGCTAAACCCCAACTTTTTTT
TATACACCCCAACACTTGAAGGGCGGACCTTTACAAAGTGGCTTTTG
GAATAACCCCGGAAGGAAAATTTTTCCCCCGGGGTCTTTTTCTTT

Table 2

GAACCCCCCAATTTCCACAAAAAGAGGGAGATTTTTTGCCGGTAAACTTA
CTCCATTTTTTAATGGGAAAATCCGGTTTTGGTTTTTCCCCTTTTTTCCG
GGGCGAGGGGAAAAAATTTTTTTGGCCCCAGCCCCGGGGTCCN
>Sequence 246
CGTCTCGTTACACCTCGTCGACTTGCCTTCTGTATGTTACTTATTATTAT
ATTTGTTACTATGTTTATAACTATCTATCTTCAGTCCATCATAATAATT
TGCTTTACCATGTGTATAGTAGTTTAGGTAATCTTTGCTACNNANTCNN
GCNANTTGGGGTGTATGTCAGCCTNTCTCGGGTGGCGGTCTGTTGGGATC
AGCGTAGGTGAGCTGTGGCCTTTTGGAGGTGCTGCAGCCATAGCTACGT
GCGTTCGCTACGAGGATTGAGCGTCTCCACCCATCTTCTGCGCGGGACCA
TCTACATAATGAATCCCAGTATGAAGCAGCAACAAGAAGAAATCAAAGAG
AATATAAAGAATAGTTCTGTCCCAAGAAGAACTCTGAAGATGATTCAGCC
TTCTGCATCTGGATCTCTTGTGGAAGAGAAAATGAGCTGTCCGAGGCT
TGTCAAAAGGAAACATCGGAATGACCACTTAACATCTACAACCTCCAGC
CTGGGGTTATTGTCCCAAAAAAAAAAAAAAAAAAAGTACCT
>Sequence 247
GCTCTAAGCTATAACGTACTAATATTTGATCTATTCATATACATTATCAA
TCACTAATACACACATCAATATACTTACGTATAATACACTATCTTAGTTC
TCTAATATAATTTATNANTNTANTTTGGCGTTTGGCTTCTCCCCGCGGNGG
CGGCCGAGGTACTCCCCAGCAATATGCTTGGTGGGCTTGTCTGACTAGA
TGAGCTGCTATAGTAGCCAATCCTGTTAGACTTGGACCATTTGTTGTCTG
AAGAACGGGGATCTGTGCTCGCCTGAGCACTGTATTTATCCCTTAC
TCAGTCCCAGGGACTTCTCCAGTAGCGACAACCTTGCGGCCGCCGCATC
TTC
>Sequence 248
TGCCGCGTATATGCANCTTCCCGCGGTGGCGGCCGAGGTACTTNNTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTACAGAGA
CGAGGAATTTAATTAGGGTTGTAACAAATGGTTAATTATAGTAAGAAAAA
CCAAATTGAATAATTTTCTAACTCACTTGGCAGGGGGGGTCTCGCAGCCA
TAATGAACATCACATAATGAAGTTACTCCTTTCCAGATCTATAAACAGGC
TCATGTAACATACTGATACTCAGTAAAGGGTCCATAATCCAAATTTATA
TAACAAATGGGGCTTGCTATAAAATCTCTTACATTTAATACTTACTCTT
AATAAATCATCTATTCTCCCTCCTTCTCTAAGGCAGAATTCTTACT
GTTTTCTAGGGCAGATATTTTTTCTATTGTGAGGTGCGACTGGGTCTGTC
TGGGCTGGATGGAGATCTGTTTTTGGGAGCTGCAGGAATGCTCTGTGTG
CCAGATCCCGTAAATGAGGGACTGTTTTGCTGAGCTGAACAAAAGTGAAG
CAGG
>Sequence 249
GATCAGACTGTCTCAGATCAAGGAAAAGATGGCCAGAGAGAAGCTGGAAG
AAATAGATTGGGTGACATTTGGGGTTATATTGAAGAAGGTTACGCCACGG
AGTGTGAATAGTGGAACCTTCAGCATATGGAACTGAATGATCTTCG
TGACCTGACACAATGTGTGTCCTTGTCTTATTTGGAGAAGTTCACAAAG
CGCTCTGGAAGACGGAGCAGGGACTGTCGTAGGGATCCTCAATGCCAAC
CCCATGAAGCCCAAGGATGGTTCAGAGGAGGTGTGTTTATCTATCGATCA
TCCTCAGAAGGTCTTAATTATGGGTGAAGCTCTTGACCTGGGAACCTGTA
AAGCCAAGAAGAAGATGGAGAGCCGTGCACGCAGACTGTGAATTTGCGT
GACTGTGAGTACCT
>Sequence 250
GGTNTCGTATGCTTATCGCGGGCGGCCGGAGTGATGCCATCTGCAGTTTT
GTGATCTGCAATGATTCTTCCCTTCGAGGTGAGCCATTATCTTTAATCC
GGACTTTTTGTGGAGAACTCCGACATGAGAACTGAGATTTTCACTG
AGTTGGTGGTCAGCAATATCACAAGGCTCATCGATTTACCTGGAAGTGA
TTGGCTCAGCTGATGGGGGAAGTGGACCTTAAGTTGCCTGGCGGGCTGG
CCCAGCATCAGGATTCTCCGGTCTCTCATGTCTCTCAAGCGAAAGGAAA
AAGGAGTGATATTTGGGTCCCACTGACGGAGGAAGGCATTGCCAGATA
TACCAACTGATTGAGTATCTACACAAAACTTGGCAGTAGAGGGTTTGT

Tabl 2

TAGAGTACCT

>Sequence 251

TTATCTCCACATTGATTTCTCAATAAACATTTTCTTTTCGATCAAGAATT
ATTCTAGTATAATATATATTTTTTGCTTCCGTTGTTATATTTATCACACA
CAAAAAAATAAATGGGTGTTGTCTCGATAACCTNTCCGCGGNGGCGGCCG
AGGTACCAGCACAAACCGGGCCAGCCTCCTAAACTGCTCATTACTGGGC
GTCTACCCGGGAATCCGGGGTCCCTGACCGA

>Sequence 252

GGGNNACGTTGCTTGATCGCNGGGCGGCCGAGGTACATTTTACTACGCAC
CCTTACGCATTCTTTTTCTACCTCTGTGTGTGTGTGTGCGTGCACATGC
ACACACACAAATGGGTGAAACAATTCTCACCATACCAAGAGCCACCGCGC
CCTGCCGAGAATTGCAATTTCTAACAAGTCCCAGGTGATGCTGACACTG
CTGGCTCATGGAACCACTGCTGTAGTATTTTCCAAATTATCCTGATTCTA
AGAACCACCTATGACCTGTGCTGTTTTTCTGTGGTTACTGGCTCATGTC
ACATAAATCTTTTAGGATTCAAACATGTTTGTGATATTACTCAGTATTT
ACATCTTGCTTTTACTGCAGCATGATGGAAAAATTAACCACAGGTATATC
ATAACAAAAAGAACATGAGTTACCATTTTCAAAAGTTCAGATATATTTA
AATTAGCCTATTTAATCTTTTTTTGGGTGGTGTGAAATGGAGTCTCACT
CTGTCTCTCAGGCTGGAGTACGTGCTGGTTTAATTGTCCAAGGCGGGTCT
GGACCAGACAACTTTTGTAAAGGGCTGGGCCGTGTCTTTGGTGGTTGGAGT
CGGTCTCCTTTGGCCCTTTTTTGGTGGCCGGAATCGTGGCTGGCTGATTC
AACAGTTCAAAAGGAAATTTGGTGGTTAGAACGGCC

>Sequence 253

TTTCTTCGCGCCCGTGTCTTTTGCCTTTCAAAATTTTATTTTCTCTGCTT
ACAGCTTTTTTTTACATAATACATAATTTTATTTTTCGAATAATTTTTC
TACCCACAAAAAAATTTTGANNAGGTGCTTGTAGCGCNTCTCGNNGNG
GCGGCCGCCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTCTACCGGTAGC
CTATTTAGATTTATTAaaaaaacATAGGTAACGAGTCAGAGCTTTGGC
TAGGAATGAGTTGGAAAAGAACTGAAGGCATAATCCACAGGACATTCAC
AGTTGTGTGCTAGAGACAGAGAGGAGCAGGAAAGTGTTTAGAAGCATTT
GCGGCCGACAATGGAAGGCCCGGCTTCATCGAATTCCTGTTTGCTGATCC
ACATCTGCTGGAAGGTGGACAGAGAGGCCAGGATGGAGCCACCGATCCAG
ACAGAGTATTTGCGCTCCGGAGGGGCAATGATCTTGATCTTCATGGTGCT
GGGTGCTAGGGCCGGGATCTCCTTCTGCATTCGGGCGGCAATGCCAGGGT
ACCTG

>Sequence 254

TGTATATAGATAGAGCTCACCGCGGTGGCGGACGAGGTACTCATGGTTGC
TGTAATCTGGCCGCCGTTCTGCAGGGTTATGCTTAGCCAGGCTCCTATG
AGATCTGGCTATTCTGTCTTGTGGATGGTCAGTCCCCGCGTACCTGCCCG
GG

>Sequence 255

GTNTAATCGTTGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGATTGT
GTGCAAAATCAGAGGGGGGTGCAAGATCCTGATTTTTCAGGAGTTCAAGC
GACAATGGCAGCCCAATACGGCAGTATGAGCTTCAACCCAGCACACCAG
GGGCCAGTTATGGGCCTGGAAGGCAAGAGCCAGAAATTTCCCAATTGAGA
ATTGTGTTAGTGGGTAAAACCGGAGCAGGAAAAAGTGCAACAGGAAACAG
CATCCTTGCCCGGAAAGTGTTCATTCTGGCACTGCAGCAAAATCCATTA
CCAAGAAGTGTGAGAAACGCAGCAGCTCATGGAAGGAAACAGAACTTGT
GTAGTTGACACACCAGGCATTTTCGACACAAGAGGTGCCCAATGCTGAAA
CGTCCAAGGAGATTATTCGCTGCATTCTTCTGACCTCCCAGGGCCTCATG
CTCTGTTCTGGGTGGTTCCACGGGGCCGTTACACTGAGGGAGAGCACAAA
GCCACGANNAGATCTGAAAATGTTTGGG

>Sequence 256

GCCCCAGATTCAATCTGTGGTGACGGTCCGATACGATGAGGGACTACACC
GCACACCACCACTTCTGTTAATGTTTTGAATCTAAACGTTGAGGTGGGG
CTNACCATGTTGCCAGACTGGTTTTGAACTCCTGAGCTTAAGCAATCC

Table 2

ACCTGCCTCGGCCTCCCAAAGTGTGGGATCACAGGCGTGAGCCACCGCA
TCCGGCCTCATGTTCTTTTTCATTAAAGAGAGAAATCAACTATTCAGGAC
CGGCCCCACCTTTCTCAGGAGTCATTTCTGTTCCGCACAGGCCTGCTG
AACTGGGTGCTTTATATAGGGAAAGTGGGCCTCATTTTTTGGTCCCTGTC
CTCAAGCCTTAGGGGCAAAAAAACCTCCAAAATTGAAAAGGGTTTTTTT
TTTTAAATCGGGAGGGGGGCCCTCTTTGTGTCGGCGATTTCGGGGAA
AAAAAAAAAAAAAAAAAAAAACCCCCCCCCCGCGCGCCTTAAAAAA
AGAAACCCCCCGCGGGGGGATTTTTATATTTTTTTTTTACCCC
>Sequence 257
GGAGATGATTGAGCTCCCCGCGGTGGCGGCCGAGGTA CTCTGACTTGCAG
GGCCACAAGACCGCCTTGCGAGCGTCGTTGGCTGATGGGAGTAGAAGCC
ACAGAGAGTCTTCTCTTGGAGGTACAGTCAATTCTGAGGTTTGGGCGTC
ATAGACTAAACCCAGAAAAACAGAACATTGGGAAGTCTCGGAATATTCTC
TATCTTCTTACCAACGAGTAAGACGTTTTTGAATAATGGGACTTTACAA
AGGCCTTGAAGCCAAATTGGTTGAAAAAGGCCCTAACTGGTGGTTTAAA
AGGGTCCTTGGTTATGAAAAAATGAACAGTGCCTTCAATTTTTG
GGGTTAAAGGGGGGCCCAACATTGGAAACCCCTTCCCAAGAAAAAT
TCTCCAAAATTTCTAAAAGGGGGGGTTTCTTCTCTGGTAAAAGAAA
AAGAGAAAAANTCTCCTTAATATATTGTGTGTTCTCGCCCCAAAAAG
ATACCCCCCTTGTGTGAAAAAAGAAAACAGGGGGGCCCGGGGGG
GGGGTGTCAAAAAACCCCTGTACACAAAAATTTTATCTCTCTGG
TGGGAAAAACCGGGGGGGCTGATATATAAT
>Sequence 258
TTAGTCGTTTTGAGGCCCGGTGGCGGTACACGGGCCACGTGACCG
ACGCCAACATTGGCGGCCAGTTGCGTCCACCTGCTTGTCCGAGAGGT
TCTCATAGAAATTTCTTCCCACTCAATCATATCTACTTACACAAGCA
GTCAAGCAGTCAACAAAGAAGAAATTTCTTTTTCGGAGACAAAGAGATA
TTTACACAGTATAGTTTTGCCGGCTGCAGTTTCTCAGCTCATCCGTT
CCTAAGCACATAAAGAAGCCAGACTATGTGACGACAGGCATTGTACCTGC
CCG
>Sequence 259
ATGTTATATTCGTCTAATAGCTACATTGAGTCGAATCGTATTATGTTCTG
ATCTCTTTTATTTATGTTTATTACATGTATCTATCGTATCTGATTACG
ATACGATTACGTTTTATCCTATCTTCTNTAATGGTGTATGCCACC CGG
GTGGCGGCCGCGGGAGGC
>Sequence 260
GCTCGTTATGTCGTTACTATCTGTGTCTGCATCGTATCGCATTCTCATCT
ATTATTATCTATTCTTGTATCTG
>Sequence 261
TCTATATATCTATCGTTCTATATATTAATTATTTATCTTTGTA CTGTT
TATCGAATGACTTTAATATTCTATCTCTTAACTATACATCTGTTTCT
CTTTATATATAGGTAGCGCGTG
>Sequence 262
TACTCCACACTCTACTCATTTTCTTCATTTCTGTACTCGTTTTA
ATAGTATTTACTTATGTTCTATGTTATGTTATCATCATTATATCATATA
ATATCTGTTTGAATCAACACCCATTANTTTATTTATTTATGTTGTAG
CCGGGGCGGCCGAGGTACCCGATAGAACATGGCATCATACCAACTGGGA
CGACATGGAAAAGATCTGGCACCCTTTCTACAATGAGCTTCGTGTTG
CCCCTGAAGAGCATCCACCCCTGCTCACGGAGGCACCCCTGAACCCCAAG
GCCAACCGGGAGAAAATGACTCAAATTATGTTTGAGACTTTCAATGTCCC
AGCCATGTATGTGGCTATCCAGGCGGTGCTGTCTCTATGCCTCTGGAC
GCACAACTGGCATCGTGCTGGACTCTGGAGATGGTGTACCCACAATGTC
CCCATCTATTAGGGCTATGCCTTGCCCCATGCCATCATGCGTCTGGATCT
GGCTGGCCGAGATCTCACTGACTACCTCATGAAGATCCTGACTGAGCGTG
GCTATTCCTTCGTTACTACTGCTGAGCGTGAGATTGGTCGGGACATCAAG
GAAAACTGTGTTATGTAACCTCTGGACTTTGAAAATGAGATGGCCCTGC

Table 2

CGGATCCTCATACTCCCTTGAGAAGAGTTACTAGTTG
>Sequence 263
AGGTACTTTTTTTTTTTTTTTTTTGCAGCCGTTTTCTTACTAGAA
GCTAGGCGGAAAGAGGTGTTACTCAGATTTCTTGAAC TTGAGACGTCAAA
GGTGAGACGCCAGCCAAGGAGAAGGGATGGTCAGGGACCTGCCCC
>Sequence 264
NGCGTTCGGAGCACTACGCGNGGCGCTGCGGGGAAGACGGGNGACGNGC
GGATCTTCTTCTTTTGGGGCAATGNCACGTTTAATAATGCGTNCCCCGC
CTNNAAGCCTTCGC
>Sequence 265
CCGGGCTACCGCGGGGTGGAAACCTCTTCAGCANNNGCTNGGTTCANNG
AGCTATNANACAANCAACCGGGACCCAGCTTTTCAGAACTGCAGGGTAA
CAGCCATCATGAGTGAGGTACCAAGAAATCCCTGGAGAAAAATCCTTCCA
CAGCTGAAATGCCATTTACCTGGAAC TTCAAGGAAGACTGNGNCTT
TTTTATCGAGTGGATAGAGNGCGCAACCAGTTGAATTTTAAACACTG
AGTTCAAAGCTGGCCATGTACCT
>Sequence 266
GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTCTAGGTATTGC
TGGGCAAGATCCTTGTGGAGTCCTCCTCTTTGCTGCCCCACTCAGAGG
ATAGGCAGAGCAGACTGGCAGACACAACAGCACAAGGAATGCAAGATGCA
TCATTCTCACTGCCCTTACCTTCTTTGTCTACTGGGCTTCTCCCCGCGTA
CCTGCCCGGGCGGNCNGTNCNGAGCCGCGGGCAGGTACTACCTTCACCAA
CTTTTTCATTTGGGCATCACAAGACGAGTCTTCTGATGTTCTATAAGCA
ATATGTTTATATGAAAGTCAGAAAGTTTAGCGAAAATTCGGCCTAAACAGT
AATAAATGAAAATGGAATGGAAATCAAAGTCTTAAATAGAACAGAAAGGC
TGGGCACGGGGGCTCACGCCTGTAATCCAGCACTTTGGGAGGCCAGATG
GCCGGATCACGAGGTGAGGAAATCGAGACCATCCTGACTAACACGGTGAA
ACCCCGTCTCTACTAAAAATACAAAAAAATTTGCGCGGGCGTGAGTCC
GGCCCCCTGGAGTCCCAGCTACTCAAGAGGCTTGAGCAAGAAAATGGCGT
GACCCCGGGAGGAGAGCTTG TAGGAGCCCGGATCCGTCTCCTGCACTTCA
ACCTTGGGCGACTGACAAGGCCTTTGCGCAAAAAAAAAAAT
>Sequence 267
AGGTACTTTACCTCATTTCTACCAATCATTTTAAGAGAATTTGGTTGTA
TTTCAAAGAACAAAACAACAATTTCTGTCTGCTGTTTATTTTAGCGT
GGTCGCGGCCGAGGTACGGATACAATTCGCTGAGTTAGATTCCAAATTC
TAACCTCTCCATCACACGCCCCAGAAAGGACAGTAGCCAGCTTCTCTGGA
TGCTTTGCCAAGCAATTGACTCCATCACGGTGACCATCCAGCGAAGCAAG
GAATGGTTTGTCAAATACTCGTTCCAGTTTGGTAGCATTTAAAGCTCTTA
TATATTCTCGTGGGACCTCAAAGGATGTAAAGCAGGATCATAGTTTCTT
GGAATCTCTGTAAGTCCAAC TTGGTTTCGCGGACATAATTGTCCGATT
CCGGCTCAGCATCTTCACCTTCATCTCGGTTGCTCTTC
>Sequence 268
AGGTACATTTATATGAAAGTCCTCACTTTTCAGAAGCAGAAAAGGAGTAAC
TAGATGGGCATTTTCTATACCAGCTAAGGCTTTAAACATAACAACGTCTA
CTGAAC TATTTCTACTTACTTTGACTGAATAAGCCAGTGAGATCGTGAC
TGCAAGTGGAAGACCTTCTGGCACTGCGACCACTAAACTGTAAC TCAA
TAATGAAGA ACTTCACAAAGTATTGTATATAAATTTGGTGTGCACTCAGCA
AGCCATGGTCTTTTCTGAACCCAGAAAGGTGTCAATGACAAAATATAATAC
TAGAATGATAACTGTGATGGCAGGCATCAACAGACCTTTTCAGAATAGAAA
TGAAAGAAAAATGTGATTATTAATTTCCAGACACTAACCCCTTGACAGAT
ATAAATTAACACTGTAAAGAGTTATAACTTGCTTGATAGTATTGAATTT
CTCTGAGAAATTA CTCTTTCTTGACCTTATAACTTGACATTGTCAGAT
TTAATTTTTGCTTAAGGCNCGCGCCCGG
>Sequence 269
AGGTACGCGGGATAGTGGAGGCACTGAAAGACCAGCAGAGGCATAAGGTT
CGGGAAGAGGTTGTTACCGTGGGCAACTCTGTCAACGAAGGCTTGAACCA

Table 2

ACCTCGAGCGGCCGCCGGGCAGGTACAGATGCACAGGAGGCCATAGGGT
TTAGGCAAAGGGGAGCACAAAAGTTGAAGATGAGGCGCTGCCACCAATGC
TGGGACTTCAGGCCAGGGCAGGAGCTGAGGAAGCCACAAGGGAGGACAT
TTTCTGCAGTTGCTGAACCACTAGCAACCAGGTCCTGAGAAAAGCCCTCTC
TTGTGGAAGAATAACAGCCAGGAGGAAAAAGCTTTTTCATTCTGCAAAGCTG
GGGCAGAAAAGTTCTTTGAATCCCGCGTACCT
>Sequence 270
NGCGATAGGAGCACTCCGEGGNGGCGGCTGCAGAGACGCTTTCGGC
>Sequence 271
GCGCTAGNGCNACCCGCGCNGGCGGCTGGCAGTTGATCGACGACAGCCGG
GAGGCGNNAGCGAAGGAAGAGACCTTCNGAGNCNGAATAAACTCNAGCGC
CCCCACGNACCN
>Sequence 272
TTGGAGCTCCACCGCNGGTGGCGGCCGAAGTCCACAGTTAGCTGCAGC
AAAACCGAGGCTGCCTCAGGGAAAGGAGCCTGGGTGATTAACTTGTGTG
TCAATGTCCACCCGTCAGGTAACATTTTGGCCCTGAGGTCCGGGGT
AATTTAATGGCTGCTGGACAAAACCTCCAAAGTTCTGAAAGATCAGAAAT
GATAGCTACCTGGAGTCCAGCTGTACGGCACTTGGCGTAAAGCCGCTTCC
CTCAAGAGTAACATACTTCCCATGCACAAGATGATTAATACAGATCT
TAGCAGAATCTTGAAGGCCAGAGATCCAAAGAGCCCTTCGAGCACCAC
GCAAGAAGATCCATCGCAGAGTCCTAAAGAAGAACCCACTGAAAACTTG
AGAATCATGTTGAAGCTAAACCCATATGCAAAGACCATGCGCCGGAACAC
CATTCTTCGCCAGGCCAGGAATCACAAGCTCCGGGTGGATAAGGCAGCTG
CTGCAGCAGCGGCACTACAAGCCAAATCAGATGAAAAGGCGGCGTTGCA
GGCAAGAAGCCTGTGGTAGGTATAAAGGGAAGAAGGTGCTTGTGGTGT
AACAAGCAAAAGAAGCCTCTGGTGGGAAAAAAGGCAGCAGCTACCAAAAA
ACCAGCCCCTGAAAAAGCCTGCAGAGAAAAACCTACTAC
>Sequence 273
GCGGATTAGGAGCTACTACCGCGCNGGCGGCTTANANGACCTGTACNG
GCTTCGAGCCCGCNCAGNCNGGGCGAANGANTTTTNGGCGGGTTGAG
GCGAGGCACCTCCCTGCCCC
>Sequence 274
GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGCGTCGATGCTATG
CGCTCAGTTCTAGTCAGAATAATCTTGCTCATCTCCAGCTCCCCCTGTT
CCACCAAGGCAGAAATCAAGCCCTCATCTGCCAAAACCTACCAACAAAGAC
TTACAAACGGGAGCTTTCGCACCCCCATTGTACGCGGGGGAGGAGCCTG
AGGAAGAGGGGCGGACGGTGGTGGTGACTGAGCGGAGCCCGGTGACAGG
ATGTTGGTGTGGTATTAGGAGATCTGCACATCCACACCCGGTGCAACAG
TTTGCCAGCTAAATTCANAAAACCTCTGGTGCCAGGAAAAATTCAGCACA
TTCTCTGCACAGGAAACCTTTGCACCAAAGAGAGTTATGACTATCTCAAG
ACTCTGGCTGGTGATGTTAATATTGTGAGAG
>Sequence 275
ACCTTATCCCATTCCTTGGTACACATAACTCTCTTTGAATACGTCAGAA
CAGGCTCCGCGGAACCGACTACAACGTCATTTTAAAAGGGGAAATAACTG
TTTTATCCCCCAATAAAGTGGAAGAACTCACGCGAACAACCTGTTATCTC
AAAAAGCCACCCAAAACCCCATGAACCTTAAAAAAGGCCCCCCCA
GTTTTCCA
>Sequence 276
AGGTACGTTCTATTCTGCTCCTATTAGGTCCTTCTACCGCACCGGCCC
TCGGTCGATTACGCCTCTCCAGTTCTGCTGGGGACGTTCTAGCCTCGCCC
CACGCGCGTCGATCTTTATGTTATACCGTCACTCCAGTGCCCTAATGGA
ACTATCCCTCACTCACTCCCCCTGGTTCTACCCCGGCTCCAAGAGCCTC
TCCCGGNNNCCACTAATTTATCCCAAATTCTAGGGCCCCGGCCCCATCAG
NCCCTCCTCCGCGTACCTGCCTCGG
>Sequence 277
AGGTACGCGGNGGAGCGGGCCCTACCGTGTGCGCAGAAAGTGAGGCGCT

Table 2

TGCCTTCAGCTTGTGGGAAATCCCGAAGATGGCCAAAGACAACTGAGCTG
 TTCGGTGTCTCCAGGGCCTGCTGATTTTGGAAATGTGATTATTGGTTGT
 TCGCGCATTGCCCTACTGCGGAGGTGCATTCTTCTTTGTATCTTGACCAA
 CACAGGCCTCTACCCACTTGCTTGAAGCCACCGACAACGATGACATCTAT
 GGGGCTGCCTGGATCGGCATATTTGGGGGCATCTGCCTCTTCTGCCTGTC
 TGTTCTAGGCATTGGAAGCCATCATGAAGTTCAGCAGGAAAAATTCTTCT
 GGCCTATTTTCAATTTGAAGTTTATAGTATTATGCCCTTTGAAAGTGGCAT
 TTTTGTATTACAGGATTCACCCCCACCCAGACTTTTTTCAACTCCAATT
 TTTTCTGAAACAAATGCTAGAAAAGGGAACCTGGCCCGGGCGGGTTCGTTT
 TAGAAATAAGGGGAATCCCTGGGCTGGAGGAATTTCAATTTCAAGGCT
 TTTAATCCCGGCTCACCTTCTGGGGGGTGGCCCGGGTCCCACAATTTT
 TTGTTCTCTTTAAAGGAGGGGTAAATTGCGCCCGCTTTGCCGAAAAAC
 ATGAGTTATACGGTTGTTTCTGTGGGTAAAATTGTGATTTCACTTTTA
 AATGTTTCCGACATGACATATTCAAGCGACGCCCCGGCG
 >Sequence 278
 GCGTTTGGAGCTCCCCGGGTGGCGTTCCGCCGGGCAGCTACTTTCATCC
 ATAAAGGCCTGCAGCTGTTTTCATTGATCCTTGACGTTTCATCCATCACCAA
 CTCCATACAGTCAAAGACTTTGCTCTGGTTCTGTAATATTTTCTGGTAGT
 CAGGTTTTGTATTAAGAACTTCATTCTGAGAAGACCCAAGATATGTCATA
 GGTTCCACTTTGACCTCAGTAATTTTGGCCTCAGTTGATCCTCTGGACAA
 TATCTCTTTAGCCTCCTGCTGGTAGTGAGGCAAGAGCTGATCCCAAGTCT
 GACGTTCTAAAGAAAACTTTGTTATGTATTCCTTCATCTCAGCCACAGAT
 GCTTCCAAAGAAAAATCTGATGCTTTTCCATTGAAATCTTCAAAACATTT
 TTGTAGAGTTCCATCAGTTTCCAGTCCGCTCTGCANAATGTTTCAATTCTT
 CAGAAAGAGAAGATGCTTTGGCTCTAAAACCTTCAAGACTGAAGCCCTTA
 GTGTCCCTTAGGAAAGGTTCAAGTTTCTGAATAGAGAAGTGGAACTGGG
 AAGCAGGAGACAGCCAAGCCGTTTGCTTTCTGCTAAATCGACACTGATAG
 ACCGGCTGAGCTCTGTGATGCCCTGGTGAATGGGATGCAGCGACTTCCGC
 CGGTTGCTTTCTTTCATACTTGCTCGCCCGCGGGATTGCCTNCTGGCTTG
 ATACT
 >Sequence 279
 GCCTTAGGAGCACACGCGGTGGCCTCCGAGGTACTACTCTGCACTGTTT
 TTTCTTTCTAATAAACTTTCCCTGTGCAACCTATACTAGTCTTCTGTAA
 ATTCTTTCTTACTACCTATGACCCGTGAGCCAACCACTTTCCGATGCCAG
 GGTCTGACACCTCACCTGGCATAATATAAAGTGTTTTTTTTTTTATACC
 CTTCCTTGGAAAGACTACAGAGGAATCTTGCTCTGCATAGTTCAAACT
 AAAAAGAGAAGAGTTAATTACCTGAAAAGCAAGAGAAAAACAAGAAGGGGT
 AAATTTTGAACCAAGGGAAATCATTTAAGAAGTGTCTGGTATTTTCAAA
 TTTCTGTGAGTTGTTACATTTGTCTAAGTAAATGTTTAGGAATAAAGGA
 TGGAGACATGCTTATTTTATTTAACTCCCCAAAATTNAAAAAAAAAAAA
 AAAAAAAAAAAAAAGTACCTGCCCCGGGCGGCCGCTCGA
 >Sequence 280
 TCGGGTGACTCCCGCGGTGGCGGCCGGAGTGATGCCATCTGCAGTTTTGT
 GATCTGCAATGATTCTTCCCTTCGAGGTGAGCCATTATCTTTAATCCTG
 ACTTTTTTGTGGAGAACTCCGACATGAGAACTGAGATTTTCACTGAG
 TTGGTGGTCAGCAATATCACAAAGGCTCATCGATTTACCTGGAAGTGAAT
 GGCTCAGCTGATGGGGGAAGTGGACCTTAAGTTGCCTGGCGGGGCTGGCC
 CAGCATCAGGATTCTCCGGTCTCTCATGTCTCTCAAGCGAAAGGAAAAA
 GGAGTGATACTTGGGTCCCCACTGACGGAGGAAGGCATTGCCAGATATA
 CCAACTGATTGAGTATCTACAAAAAACTTGCGAGTAGAGGGTTTGTTTA
 GGTACCT
 >Sequence 281
 TATGTGGTACCGGGGTGGCGAGGTACCGGGGGGAGACATGTGGAGTCC
 CAGCAGAGGCCAACCTGTGTCTTCTCATCTCCCTGGGAAGGGTGCCCCG
 AAGTGAAGAGATGGCCTGGTGGAAAGCCTGGGAGAATGAATAAACAGAC
 TAGGTTGAATCCATACAATGGAATGGTAGCAGACAATAAAAAGAAAATGA

Table 2

ACTATTGATGCCCCCTACTGCACAGCAGAAGCTCTGAATCGTGTTCTCTGA
ATGAAAGAAGTCAGAGATGAAAAGATGGGCCAGGAGTCCAGTTTCTGGAA
GGCCAAGAATCGAAGTAGCAAGCTGCAGCCGTTTTCCAGACAAGCATGAT
GTGGGGATGCAGAAGAATTCAGGACTGGAGGGGCAAACTCCGATGTGACT
GAGGCCCCACTGCCAAATGGCGGCATGCTCAGATAGCACCCAAGAATTTG
GGGAAAAAACTGGTGCTCACAGCTGCCAGTTAAGC

>Sequence 282

ATTATATTTCTACTGCTCAGTATAACGTACTGAACGACAGGTGTACCACG
TCTGCATCTCTTTTCGTGCGCTAATCGTCTCGACGCGTAGGCAACGTATA
CGAGACTATAGTTTTCTTTCTTACTACTTCTATTTCTACACTATATATA
TTTATCCNTTCTTGGGATCGACTCACCGCGGCTGGCTGGCCCGCAGGAT
ACCTATGTTCCACTGCTCAGCAGTGCTCGTAGTACGACTCGATGTATGTC
AGGCACGAGACAGACCCTCTTCCACTTGTCATGTTGTATTGCCACTTCCG
CGCGAGGATATTCTGATAGGATGCGTCTCTCTCAGATCAACACGGTAG
GCAACGTTCCCTTGGCTGGTACCTTTTCCACCTTTCCCTTTTCCATTCT
GGCATTAAACACCGGTTCCACCCAACCTGGCACTTAAGGGCTTGTGAGAC
TTCAACCCCAACCTTCCAGGCTCCCATTTGGGGTCTCTCTGCCACCTT
CATTTGGGTTCTGTTGGATACCAGAGTTGGAACAAGGGGGCCAGGAATCA
AAGCCTGTTCTTTTCAACCCCACTCAATTGGGCTCAAGGGGAATGTGT
GTCCCTCCAGTAAGGGGGTTCCCAAGGCCAACAAGGAAAAAATCTTG
CAAGCCTTTGAAGCTGGAAGTGGCACTTGTATGCCTAAGGCTTGAAAA
AGCCACATAAAAGGGAGGGGGCTAGGAACACCGCAAAAAGGTTTTG
GATGGCCAAGAAAAAGAGGGAAGGGGGCTCAGTGGAATATAACCTCT
GGGCGCAATTCTNTTTTCCAATTTTCCCATTTGGCCTTGCCCCATTAA
TTTCCAGGGGCGAAGGATTTAACCTCTGGGTAAAAGGGTGTGGNGNNNGG
GGGCCAAGNAACCAACCTTTATTGGACACCCTGGTGGAAAAGAGAAGCCC
TCTATTAAGAAAAATTTCCCAAAAAATTGGGGAAN

>Sequence 283

AGTTGTGACACGATTATATTGAATGTTGTCTTCAACGATATAATTTACTT
CATCAATATTCTAATAATTACATGCTAATATGATATTTATATAATAAATA
TAGCTAATGAATAACGTACTTGTCTATTTTCTCTAGAGAGCTATCGGGAG
GCGGTCGAGTACAGCATTGGAAATGGATCTGTCTTTGGTAAAGATCAGCC
TATAATTCTTGTGCTGTTGGATATCACCCCATGATGGGTGTCTTGGACG
GTGTCCTAATGGAACTGCAAGACTGTGTCCTTCCCTCTCTGAAAGAATGC
ATTGCGACCAAAATAAAGAAGACGTTGCCCTTCAAAAGACCTGGATGTGGC
CATCTTGTGGGCTTCCATGCCAAGAAGGGAAGGCATGGAGAGAAAAGAT
TACTGAAAGCAAAATGTGAAAATCTTCAAAATCCAGGGTGCATGCCTTA
GATAAATACGCCAAGAAGTCAGTTAAGGTTATTGTTGTGGGTTAATCCAG
CCCATACCACTGCCTGACTGCTTCCAAGTCAGCTTCATCCATCCCCAAG
GAGAACTTTAGTTGCTTGACTTCGTTGGATCACAACCGAGCTAAAGCTCA
AATTGCTCTTAACTTGGTGTGACTGCTAATGAAGTA

>Sequence 284

TCACATCTCATTCTTGTGATTATGTAGATTCTTTACACTTCGTATCATCA
CTCTTTACATATATTACCGAATGTGATATCAATGTACTACATAGTTCCCTT
CATATATATAATTTTTCATAATTTAGAGTGACTCCCGTGGCGGCCGCC
CGGGCAGGTACGCGGGGGCTTAAGCTGCAGCAAGAGAACTGTGTGTGA
GGGGAAGAGGCCCTGTTTCGCTGTGCGGTCTCTAGTTCTTGACGCTCTTT
AAGAGTCTGCACTGGAGGAACTCCTGCCATTACCAGCCTCTTCTTGCC
AAAGGGAGGGGGAAACATACATTTATTCATGCCAGTCTGTTGCATGCAGG
CTTTATGGCTTCTACCTTGCAACAAAAATAATTGCACCAACTCCTTAGTG
CCGATTCCGCCCCCAGAGAGACCTGGAGCCACAGAGCTTTTTTGCTTTGC
ATTGTAGGAGAGGGACTAAGTGCTAGAGACTATGTCCGCTTTCCTGAGCT
ACCGAGAGCGCCCGTGAAGTGAATCAACTGCTTCAGAAGATGTACCCTA
AGGCAACAGGGTTCCTTGGCCGGTTAAACTAGGGGATCCCCGGCTTG
CACGAATTCATATCAACTTATCG

>Sequence 285

Table 2

CGTGTTCCGGGTGGCGGCCGAGGTACTAGGTCCCAAATGTTTCAACCGAT
TTTACCCCTATGTTTTCAAGGGTATTATAGAAGGGGAGAGGTATCCTGTAG
TGATGTCCACGTATCTTGGAGTTATGGGTCGAGTTCTACTACAAAACACT
AGTTTTTTTCTTCACTTACTAAATGAGATGGCCCATAAATTTAATCAGGA
GATGGACCAGCTTTTGGGAAATATGATTGAAATGTGGGTGATCGAATGG
ACAACATTACCCAGCCTGAAAGAAGAAAACCTTTCAGCTTTGGCTTTGCTC
TCTCTTCTGCCATCTGATAATAGTGTATCCAAGATAAAATCTGTGGGAT
TATAAACATTTTAAGTAGAAGGCCTGCATGATGTCATGACGGAAAGATCC
TGAAACAGGAACCTATAAAGACTGTATGTTGATGGCTCATCTTGAGGAAC
CAAAAGTAACAGAAGATGAAGAACCACCCACAGAACAAGATAAGAGG
>Sequence 286
GTCCTACACCACTGGATTACTATGAATTATACTTTAATCCTAGATTTTTT
TGTTTTGATTCTCAATAGATGATGTCTCTGAGTTGATTTGAAATATCAAT
ATATATGTATTTACTATATGTTGTATATATNATNTANTAGAGAGACGCGG
GTGGCGGCCGAGGTACCCGATAGAACATGGCATCATCACCACCTGGGACG
ACATGGAAAAGATCTGGCACCCTCTTCTACAATGAGCTTCGTGTTGCC
CCTGAAGAGCATCCCAACCTGCTCACGGAGGCACCCCTGAACCCCAAGGC
CCACCCGGGAGGAAAATGAACTTCAAATTAATGTTTTGAAGAAGCTTTCAA
ATGTCCCCAGCCCATGGTATGGTGGCCTATCCCAGGCCGTTGCCTGTCC
TCCTCTAATGGCCTCTGGACCGCACCAAACCTGGCCATCTGTGCTTGGGAC
CTCTTGAAGAATGGGTGGTCACCCCAACAAATGGTCCCCCATCTATTG
AAGGGGCTATTGTCTTTGCTCCCCATGGCCATTCAATGGCGGTTCTG
GGGATCCTGGGGCTGGGCCCGAAGAATCTTCAACTGGAACCTACNCTTCAT
GAAAAGATTCTTGACTGTAAGCGTGGGCCTATTCCCTTTTCGGATAACT
AACCTGCTGGAAGCGGTGAAGAATTGGTCCCGGGAACATTCAAAGGGAGA
AAACCTGGGGTTAATGGTAAGCTTCTGGGACTTTTGAAAAAAG
>Sequence 287
GATGTGAGCTCCCCGCGGTGGCGGCCGAAAACCTGATCAGACTGTCTCAGA
TCAAGGAAAAGATGGCCAGAGAGAAGCTGGAAGAAATAGATTGGGTGACA
TTTGGGGTTATATTGAAGAAGGTTACGCCACAGAGTGTGAATAGTGAAA
AACCTTCAGCATATGGAAGCTGAATGATCTTCGTGACCTGACACAATGTG
TGTCCTTGTTCTTATTTGGAGAAGTTCACATAGCGCTCTGGAAGACGGAT
CACGGGACTGTCGTATGGATCCTCAATGCCAACCCCATGAAGCCCAAGGA
TGGTTCAGAGGAGGTGTGTTATCTATCGATCATCCTCAGAAGGTCTTAA
TTATGGGTGAAGCTCTTGACCTGGGAACCTGTAAAGCCAAGAAGAAGAAT
GGAGAGCCGTGCACGCAGACTGTGAATTTGCGTGACTGTGAGTACCT
>Sequence 288
GTGATGACCCGCGCGCGCGGAGGTCCCTGTACTCCAGGGCACTGGCGG
>Sequence 289
GAGATGCTATGAGGTGGCGGCCGATGACCGTCATTGTGATGGACAGACTG
GCTCAGTGAAGACATTTACTTTGATGGGACCAGATAGAATCCGATAATTT
TTCTCATAACCTGAGAGGAGTTATCCCACGAAGTTTGAATTTTGTGTTT
CCTTAATTGATCGTGAAAAAGAAAAGGCTGGAGCTGGAAAGAGTTTCCTT
TGTAAGTGTTCTTTATGAAATCTATAACGAGCAGATATATGATCTACT
GGACTCTGCATCGGCTGGACTGTACTTGGCCCGGNATTTGAAAAATGGG
GGACCATTAAGCATATAAAGGCATTTGGGGCCTGGGGGACAATGATTTA
TACTTTCCACGATTTAGCATCTCTAGCCCAACCTTAAATAAACTGTGCGA
CCTCACTTTTGGACAGCCAAGAGCTTACGATTAGTACCTCCCGGAAACCC
CTACTATACAGCGCGGTGGGCACCCTAAAGGATGGTATTATTTGACCGAA
ATTGGGGGGCTGCATCCCATATTGATCTTCAATCTATTCTG
>Sequence 290
ATCTATACAATACATATTATAAATAAATGGTGTATATATTGTTATTAT
AACATATTATAATTTTTTTTGGATAATCTAATTGATAGAGTTATCAAAAAT
ATATATCTTAATTTATTTAATCTATACTATTATATAAAGATACTCCGGG
TGCGCGGCCGCGGCGGAGGTACGTGGGGCTCCGTAGGAAGCCTCATCTC
CCTAACTAGCTGCTTACACAAAGAACTCCTTGAGAACTTGAACCTTGCCA

Table 2

GGGAACTAAAAACCCATTGAAAAGAAGGCTCTGAATCCCTTTTCTTTGCA
CTATCTCTTGGCCCTGACCTTTAGACGGGATATGATAAACCTATCTGGTG
TCTTAATGGAAAAATCAACCAATCGAAAAAGGCCATTGGGAAAATTCTTTT
AATAGAAAACCTATAATTTCCCTTTTCTATTTAAAACCAGGGAAGGAAA
TATGTCAAAAAATCCCCCTTTTTTATTACTCCCCCTCTACAATCCAAAAT
GGATGGGGGAAGATCTCTTTAAACCGTTCTCAAAAAAAGTAGGGTGATC
AAAATAAGAAAACCTGTCAATTCTAAAAGGCTCTTTGGTCCCCAACCAAT
GTCTTTAAAATGATGGAGTAACCTCTCCCTTTGTTAGATTATATACTATT
TCAGAAAGATATTTTTGTTTCGAAAAAACCCGTCTTAACCCACCCACAAA
TTGGGGTTTTATATATTGGGGAAATAAACCAAAAAATGGGCTTGACCTAT
ATTATAAATTCCGGATTTTCCCTTTCTAAAGGGGAAAAAAGCCCCCTCC
CATGAGGGTGGCACACCCACAATATTTATATACATCCTTGAGAGGGGGAA
AAAAAAAAAAAAAAAAAGAACTTTTTTTTTTTATTATTTATTTTGAGGA
AGGGGGTGGGGCCCCACCCACCTTAATAATTTGGTGTCTCCCCCTCAC
TGTTTAAATCATCTATATATTATAAAT

>Sequence 291
TGAGACTGACTCCGGGTGGCGGCCGCCGGGCAGGTACTTTTTTTTTTTT
TTTTTTTTGGGGGAGTTAAATAAAATAAGCATGTCTCCATCCTTTATTCC
TAAACATTTACTTATGACAAATGTAACAACGACAGAAATTTGAAAAATA
CCAGACACTTCTTAAATGATTTCCCTTGGGTCAAAATTTACCCCTTCTTG
TTTTCTCTTGCTTTTCAGGTAATTAACCTCTTCTTTTTTAGTTGAACTA
TGCAGTGCAAGATTCCTCTGTAGTCTTTCCAAGTGGAAGGGTATAAAAAA
AAACACTTTATATTATGCCAGGTGAGGTGTCAGAACCTGGCATCGGAAA
GTGGTTGGCTCACGGGTCTAGGGTAGTAAGAAGAATTTTACAGAAGACA
GTCTAGGTTCGAAAAAGAAAGTTTTATTGAAAGAAAGAACCGTGCCAAA
ATAGTTCTCATTCAGAATGGGAGAAAGGGCTTCTCATAGATCATTCG

>Sequence 292
TTGATGCTCCGGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTT
TTTTTGCTTGTTTTATCTTTTGGCCTTTTGGTGACTGGTGCTCCTGG
AGTCACTGGAGTTCTACTTTGAATCCCACTCTGACATCAATCGACTGCCT
TAATTCCTGGTCCAGCTGCCCGACCCTGACTCTCTCCCGCTC

>Sequence 293
GAAGTGGCTCCCGGTGGCGGCCGCCGGGCAGGACGCGGGGACATTTCGAG
TGGGGATTAAGAGAAGGAAGGCTGCCTTGCTGGAGCTGTGTGGTCTTCTC
CAAGTGAGAGTCGCAGGCAATAGAACTACTTTGCTTTTGGAGGAAAAGGA
GGAATTCATTTTTAGCAAACACAAGAAAAGCAGTTTTTTTTTCAGGTGCTG
ACGGCCACCCACCATCATCTAAAGAAGATAAACTTGGCAAATGACATGCA
CGTCTTCAAGGCAGAATAATTGCAGAAAATCTTCAAAGGACCCTATCTG
CAGATGTTCTGAATACCTCTGAGAATAGAGATTGATTATCAACCAGGAT
ACCTAATTCAAGAACTCCAGAAATCAGGAGACGGAGACATTTTGTCAGTT
TTGCAACATTGGACCAAATACAATGAAGTATTCTTGCTGTGCTCTGGTTT
TGGCTGTCTGGGCACAGAATTGCTGGGAAGCCTCTGTTGACTGTCAAA
TCCCCGAGGTTTCAGAGGACGGAT

>Sequence 294
TGAGAGGCTCCCGGTGGCGGCCGCCGGGCAGGTACGCGGGAGGCACA
TTCTTTTCTACGTGAAGAGTTTTGTAAACTGAACTTTGTTTTAGTTCCG
GCTCCAGCCATCTCGGGTAGCTTGCCAATAGATGAATCCCACTCGTTTG
ACCCATGACGCTCCTTCTTTGCATTTCTACCTCTTTCCCCACAGCAGTGC
ATGTCCACCATAACCACTGAGAGTCTGTGGAATCTAATTTTCTGTTATAC
TTCTTTTCTTACACTCATTTTCTGTCTTTATTATGATAGTCTAACTTTT
TCTCCTCAAAGGTATAGCTGCCTTGCTTTCATGAAAACACACTTTCCTAT
TGTGATTTATCAGAGGCCTTTCCATATCTCAGCCACTATGCTATGACAGA
TTTTATAATTAATAAGTGCAATTTCAAAGTGAAAACGTTACAAACATGCTT
ANCAGATGTTTTTATAACATGAAATATTCTGCTGCGTTAAGAACAAAATG
CTGACTTACTTGTG

>Sequence 295

Table 2

TGAGATGACTACCGGGTGGCGGCCGGAAGAGCAACCGAGATGAAGGTGAA
GATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGACT
TACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCCTTTTGAGGTC
CCACGAGAATATATAAGAGCTTTAAATGCTACCAAAGTGAACGAGTATT
TGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATT
GCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCCTTTCTGGGGCGTGT
TGAGGTAGAGGTAGAATTTGGAATCTAACTCAGCGGAATTGTATCCGAC
TCT

>Sequence 296

TGTGACTGGACCGGGTGTGGCGGCCGCGGGCAGGTACGCGGGGCTCCC
TTGTGAGTAGACTATGCAAAGAAAAAGTGGGCCACCATATCTGGAAACTA
CAGTCTATGCTTTGAAGCGCAAAAGGGAATAAACATTTAAAGACTCCCC
GGGGACCTGGAGGATGGACTTTTCCATGGTGGCCGGAGCAGCAGCTTACA
ATGAATAATCAGAGACTGGTGCTCTTGGAGAAAACTATAGTTGGCAAATT
CCCATTAACCAATGACTTCAAAATTTTAAAAATAATGAGCGTCAGCT
GTGTGAAGTCTCCAGAATAAGTTTGGCTGTATCTTACCATGGTCTCTC
CAGTTCAGGAAGGCAACAGCAAATCTCTGCCAGTGTTAACAAAAATGCTG
ACTCCTATGAAAGAATTATGAGTGTGGAAAGATGAACTCACCACACACGC
TGATGAGGCTGTGGAGAAATCCGTCCATGAAAGAATTTCTCTGGGGGAAG
GGCTTACCTTGGCACTGCTAGAAT

>Sequence 297

TGCGATCTCGCGCGGGTGGCGGCCGCGGGCAGGTACGCGGGGGGAGGG
CTCCGAAGTCTGGTTTTGGGCGGGAATTGAAACCGCGCTGAAGCCAACA
AGAATTTGAGAACTGTAATACCAAGCCTTGAAGGGACCATGGTGCGGC
CTGTGAGACATAAGAAGCCAGTCCATTACTCACAGTTTGACCACTCTGAC
AGTGATGATGATTTTGTCTGCAACTGTCCCTCGGCCGTTCTAGAACT
ATGGGATTCCCCCGCTGAGGGATTCCATTTTAAACCTTTTGGACCCG
CTACACCCTAGGGGGGGCGCGCCCCCTTTTGGGCCCTTTTGAGG
GGGGGTTTTACGCCCCCGGGGAAATAAAATAGGGGTAACTTTTTTTTT
GCGGGAAAAAATTTATCCCCCAAAAAAAAAAACGCCCTTTTCCCCG
GGGGAAAAAATAGGATCCCCCGGGGGGGGGGAATTTTTTTATTATT
TTTTTTTTTCCCTTCCCTCCGGGGGGGGGGGGG

>Sequence 298

ACCACACACTTCCATCTCATTATATCATCTGATTGTAATCAATTATGTGA
TATTACTTATTTATAAATAGTATCGATATACTCTTCTAAATGAATTATGT
TTTATAGTAATTTAAGTGTTTTATTACATTCTTAAGCGTTGACTCACGG
GTGGCGCCGAGGTAATCCCCAGCAAATATTCTTTGTTGGCTTGCTTGAC
TAGATGAGCTGCTATAGTAGTCAATCCTGTTAGACTTGGACCATGTTTG
TCTGAAGAACTGGAATCTGTCGCTCGCCCTGAGCAC

>Sequence 299

GTTCCATCCATATCTCTATAATTACTATTTCTCACCATTAAACGATTTCT
TTACTATCTATTTAAATACTCATATTTATATCTATCTTACTTTTAT
CTAATTTTATATATTATATCGTTAGCTCCGGGTGGCGGCCGAGGTAATC
TGTCTTCCAGTTTCCACTTCAAATCTTCTCTCTCCAAATTGTTTCAT
CCTACCACTCCCAATTAATCTTTCCATTTTCTGCTGCGTTAGTAAATGC
GTTAACTAGGCTTTAAATGACGCAATTCTCCCTGCGTCATGGATTTAAGG
TCTTTTAAATCACTTCGGTTTAAATCTCTTTTAAAGATCGTCTTCAAAT
TATTTTAAATCACTTAACTTTTAACTAACTTTAAGCTGTTAAGTCA
CCTTCATTTTAAATCTAAAGCATTGCCCTTCTATTGGTATTAATTCGGGG
CTCTGTAGTCTTTCTCTCAATTTTCTTTTAAATACATTTTACTCCAT
GAAGAAGCTTCACTCTCAACCTCCGTCATGTTTAAAGAACTTTTATCTT
TCCTTCTCATGCTACTCTTTTAAATCTTCAATTTTCTTAAATCTT
AAGCTATTA

>Sequence 300

GCGATGTCCGGGGGCGGCAGGTAATTAAGGTTGACTGGTAATCAGGGTAA
CTTCTGATACTTATCACACAAGATGGTGCCTCAGCATTTAAATAAATGGA

Table 2

GGTAGGGGAGGGCGTGGTGGTAACATACTTTTAAACCAGCGATTGCACAG
CAAACCACAATGCAAGTATTTCTGACTCCCAAGATTGCCGTTTCCTAAAG
AGCAATTCTTCTGCAGGCAACAGCAAACCTACCTTTCCTTGCTAACTGCT
TTCAGTAAATTCCTTGATGGCCTTCGATTCTGGATTGAGACATCTCTTCTC
ACCCTTCTTTTTTCATTGTAGCAATGATCTCAACACGTGGACAAAAATTGGC
TTGCAGGAATAATTTCAAGTTTTTCTAAAAACCTTGGATTAACAGGTGGA
TTACTTATTGCTATGCAGGGTACCTGGCCGGGGGGGCTGTTTCGACACCTG
GCTAATGGTCTTGACATGGAACCGGGCCTTAAATTTGGCATTTT
>Sequence 301
GCGACTGTGCTCACCGCGGTGGCGGCCGGAGTGATGCCATCTGCAGTTTT
GTGATCTGCAATGATTCTTCCCTTCGAGGTCAGCCCATTATCTTTAATCC
TGACTTTTTTGTGGAGAACTCCGACATGAGAAACCTGAGATTTTCACTG
AGTTGGTGGTCAGCAATATCACAAGGCTCATCGATTTACCTGGAACCTGAG
TTGGCTCAGCTGATGGGGGAAGTGGACCTTAAGTTGCCTGGCGGGGCTGG
CCCAGCATCAGGATTCTTCCGGTCTCTCATGTCTCTCAAGCGAAAGGAAA
AAGGAGTGATATTTGGGTCCCACTGACGGAGGAAGGCATTGCCAGATA
TACCAACTGATTGAGTATCTACACAAAACTTGCGAGTAGAGGGTTTGT
TAGAGTACCT
>Sequence 302
GGGATTGGAGCACCACGGNNGCGGTTGGGGACCACGGAACCTGCATGNTCA
GGACCCACAGGAGCGACCCCTGAAAGGACCATTATTCGCACAGAGCTGCAA
ACAACATATACATGATATAATTTAGAATGTGTGTACCTGCCCC
>Sequence 303
GCGGATTTGGAGCNACTCCNGCGGNNGGCGGCTCGGNNGCTCNTACGGCC
CCCCANCANGGCGGACCCNNAGAGAAAGGCCCTGNANNGACTACNTTGAA
TACNGNNGCCGAACACAAGGAGANCGA
>Sequence 304
TCGCCCCGAGCTTTCTCTTGTCCATCTTCTCCCGCTGCTGAAATTTCACTT
GCGGGCGCTGTACCTCAGGACCCCTCCCCCGCGTACGCTGGATAGCCT
CCAGGCCAGAAAGAGAGAGTAGCGCGAGCACAGCTAAGGCCACGGAGCGA
GACATCTCGGCCCGAATGCTGTACGCTTCAGGAATCCCCGCGTACCTGCC
CG
>Sequence 305
TTCCCGCAGGTAATCAGGTTTTATCTCTGCACTCCAAGTAGGATGAAAA
GTAAAGAGCAAAGGCTCATGTTTGCCAAGTCTGTCTTTTGTAAACAAAAA
ACCCAGCAGCTTTATCAAGCAGAATTCACCTGTATTTCTTAACCTTGCCA
GAGCTGAGTCTCATGGCCACCCCTAGCAGGAGTTGGGGAGGTATTTTAA
CAAGGCACATTATCATCTCCCCACCCAAAGTGGAGCTATTGCTAATGAA
AAAGATACAATGAGATGTTTATGAAATTATCTGTAGCTATTAATGTCAGG
TTTTTGAAATTTACTGACCTGGAAGAATACTCATAATGCAATGTCAAGTG
AGAAGCAGGACAAAGAACATTTGCAATACAGTTGTATTTATAAAAATTTG
TTACACACAA
>Sequence 306
GCGATTGGAGCTCCCCGCGGTGGCGGCTCGAGTACGCGGGGAGGCAGCGG
AAAGCTCAGCCCATGTGAGGTGCCTCTGCCAATCACAGACTACCCTTCC
CTGGTCTTGAGGTTCAAAGAATTGCAGGAGGGTAGAAAAGCACCTGGGT
CGGGTGCAGACTGCGGAGCGGGCCCTACCGTGTGCGCAGAAAGAGGAGGC
GCTTGCCCTCAGCTTGTGGGAAATCCCGAAGATGGCCAAAGACAACCTCAA
CTGTTGCTGTGCTTCCAGGGCCTGCTGATTTTTGGAAATGTGATTATTGGT
TGTTGCGGCATTGCCCTGACTGCGGAGTGCACTTCTTTGTATCTGACCA
ACACAGCCTCTACCCACTGGCTTGAAGCCACCGACACGATGACATCTATG
GGGCTGCCTGGATCGCATATTTGTGGGCATCTGCCTC
>Sequence 307
TGAGCCCGGCGCCANATCACCATTATTCCTTTAGTCACTCAGAGGCT
TGTTAATGCTTTCTTTGTAATTAGGCTATATCTGGTATCTGTATAATATC
TTCAGTTCTTCTTACCAGGGTCTTACTCTGTTCTGAAACATGGCACCT

Table 2

CAGGCGGCTCCGGCAGCGCTGGACACAGGAACTCCTGGGTCCCCGACTC
CGGCTCTCCTCTACCCCTCTTCGGTTAACTCCGCTTGTCTCTACAAA
ATGGCGCCGGAGGTCCCCCGGTACCT

>Sequence 308

GCGGTTTCGGAGCNAACNCGCGCGNGGCGGCTGGNNGACCANTACNGG
AAACCAAAACGAACGGCNGGCNGCACCANGCNGGCNTTANCNNGCCGCCT
TCANGCNGAGCAGCCCCGAAANCNNNGGAACCGGCCNCGNNGNGTTCCNN
GNNGAAGAACGGGCNNANCCCCAGAGAGGCCAAAGNNACCCCGGCCCGC
NCNAAGAACAAGCGGANCCCCCGGGCCGGCAGGAACNGCGANAACACA
GGCCCAANCTTTTCCTTTTTTTTTTGTGTTGGGGGGGCGCGCGGNACCCC
CAGCNAAAAAGAACCAANAAGCCGAGGGGNGAAGGGGAGCAGCNCNN
GGCGNAANCATTGGNCAANAGCNGCCNCCNCGGNGANGAAANNNGCNA
CNCCGCGNCACAANNCCACACNAACANNACGCAGCCGGGAGCANNAAG
NGNAGAAGCCCGGGGGCGGGCCCAAGGAGGGGAGCNAACNCACANNNA
NNNNGCGNG

>Sequence 309

GCGTTTGAGCACACCGCGGNGGCGTTCGAGTACTTACGAACATNCNNAN
ATGGNNNACCTTCTAAAAATGTTACACAGAAGAATAAAGGCNACCAACCG
CTCNNATNATCGAGNGCCAGAAACCTTTTACAAGATGGTAAAAA
ACAGAAAAAAGAAAAAACAACCAAAAAACAAAAAATTTACAACC
ACAGCTAATGCAATTTTTTCCATTGTTCCCATTTTTTCCAAACCTATTG
GGNGCAAAGCCCATTTTTTCCATGCATCTAAATGATAGATACAGGCTAT
GAAATTCTTTATTCTATTGTAGCAGCTTATGCAGGTGCAGCCAAACACA
AAGCTTCAGGACAAATTGTACCTGCCCGGGCGGCGCTCT

>Sequence 310

GGCGTTANGNGNCNACTNCGCGGNGGCGACTCGANGNCNGCATCTAAGC
ACGCNACCGNGGACAAGAGCAGGNGGCCCTAGNNNGACNGTNTTATGCT
GCNCCGCGANGCANGAGGCNCGCACACCAACNACATGCAGAAGAGCCG
GCCCGGCCCGGGAAAAAGAGNGCGA

>Sequence 311

GCGCTTTGGAGCNACANCGNCGGNGGCGGCTGNNCGNCGGTACTCNGAG
GAAAAGCNCGCCACAGGNGGACGCGGACCGTTAGCAGNGGTTTAGGCACC
CCAACAAGCCGCGGGGCAAAAGGNCCNCGNATTT

>Sequence 312

GCGCTCGGAGCTACACCGCGGTGGCGCTGCCGCGCCAGACTCTTGAGAA
AGTATAGCAGCAAACAATGCCTATTTTACAGGAAACAGAACACATACCC
AGAAAAATGCCCTGGCAATCATCAATCACAGTTTTCCAACATCAATAAA
GTGTTAACTCCTCATTTGAAAGATGGTGTTCCTGGATTGAATATTGAAG
AATTAATAGAGAACTTCAGTCTGGAATGGAGGTTATGGATCAGATTTGT
GATGTGAGAAATATCTGACATAATGGATGTATATGAAATGAACTATCCAC
ATTAGCTTCAAAGAAAGCAGGCTACAAGATCTTTTGAAAAAAAACCTC
TAGCCCTTGACAGGCTGATAGACTGATTGCTCAGCATCGCTGTCAAAGA
ACTCAAGC

>Sequence 313

AGCGATTGGAGCTCCCCGCGGTGGCGGCTTCCCGGGCAGGCACCTTAGCA
TTAGATTGAGTTATGTTGCTAGGAGATGTTTATTCATCAGCTGATCATT
AGCATATGGGGCTTACTTGGCCCCCTATCAATTTGCGTCAAAATAAATT
AATTGTAGACCTGTCTTGTATGAAAAAGCAATGTGATAGTCTTTAAA
TTTATCTTTCTAAACAAGACACAAGTTTACACATTACCCAGCACAGTAAC
CCCTCTTGGTATTGTTTACCTAAAAGGAAGAAAGTGTAAGAAAACTGATA
TAAGTAGAGAGTTTATTTGGGCCAAGCATGAGGGTTACAACCCAACTGTA
TGGAGACAAGTTGTCTGAACAATACACATTCTTATTAGCAACAGTTATA
AGTAGGTTTTCAAAGAAAAAGAAGA

>Sequence 314

GGCGATTGGAGCTCCACCGCGGTGGNCGGTGAGGTACGCGGGGGGTCTT
GGAGGTTCAAAGAATTGCAGGAGGGTTTAAAGCACCTGGGTGGGTGCAG

Table 2

ACTGCGGAGCGGGCCCTACCGTGTGCGCAGAAAGAGGAGGCGCTCAGGAA
TGCATGAATTGATTAATTAATGTCGAGAGCTGTAGATGGCTTTTCTCAA
GGTGTCTCAAGTGCAGAAGCCCAAGTGATTGACCCACACACTTACCTTTG
TGTTCTTCCAGAAAATCCTCAGGGAGTGCCTTCAGCTTGTGGGAAATCC
CGAAGATGGCCAAAGACAACCTCAACTGTTCTGTTGCTTCCAGGGCCTGCTG
ATTTTTGGAAATGTGATTATTGGTTGTTGCGGCATTGCCCTGACTGCGGA
GTGCATCT

>Sequence 315

GCGATTGGAGCTACTCGCGGTGGCGGCCTCCCGGGCAGGACCCCTTAGCAT
TAGATTGAGTTATGTTGCTAGGAGATGTTTATTGAGTCAGCTGAAACTTA
AGCATATGGGGCTTACTTGGCCCCCTATCAATTTGCGTCAAAAATAAATT
AATTGTAGACCTGTCTTGTGTTTATGAAAAAGCAATGTGATAGTCTTTAAA
TTTATCTTTCTAAACAAGACACAAGTTTACACATTACCCTTTTAGTAACC
CCTCTTGGTATTGTTTACCTAAAAGGAAGAAGTGTAGGAAAACTGATAT
AAGTAGAGAGTTTATTTGGGCCAAGCATGAGGGTTACAACCCCACTGTAT
GGAGACAAGTTGCTCTGAACAATACACATTCTTATTAGCAACAGTTATAA
GTAGGTTTTCAAAGAAAAAGAAGAGGCAGTTCCTAAG

>Sequence 316

CCGGGCAGGTACAGAGACCTCCTTACTTACCCCCCTTCTCCTTCGGCTGG
AGCTCGGCGAGCGAGAGGCGCGCTGGCGTTGGAGAGCGACGGCGGGCCCC
CGCGTAAGCAGTGGTAACAACGCAGAGTAACGCGGGAATGAAGAATCTTA
GGCGGGTGCACCCAGTTTCCACCATGATTAAAGGGTCTTTACGGAATAAAG
GATGATGTCTTCTTAGTGTTCTTGCATTTTGGGACAGAAATGGAATCTC
AGACCTTGTGAAGGTGACTCTGACTTCTGAGGAAGAGGCCCGTTTGAAGA
AGAGTGCAGATACACTTTGGGGGATCCAAAAGGAGCTGCAATTTTAAAGC
CTTCTGATG

>Sequence 317

GCGTCAGGAGCACACCCCCGTGGCGTTCGCCCCGGGCAGGTACTCTGCAGA
AAGTATAGCAGCAAACAATGCCTATAGACAACAGGAAACAGAACATATAC
CCAGAAAAATGCCCTGGCAATCATCAAAATCACAGTTTCCAACATCAATA
AAGTGTTAACTCCTCATTTGAAAGATGGTGTCTCTGGATTGAATATTGA
AGAATTAATAGAGAACTTCAGTCTGGAATGGTTTTTAAGGATCAGATTT
GTGATGTGAGAATATCTGACATAATGGATGTATATGAAATGAACTATCC
ACATTAGCTTCCAAAGAAAGCAGGCTACAAGATCTTTTGGAAACAAAAAC
TCTAGCCCTTGCACAGGCTGATAGACTGATTGCTCAGCATCGCTGTCAA
GAACTCAAGCTGAAACAGA

>Sequence 318

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTATTGATGTTGA
AGATGAGAAATCTCCTCAGACTGAAAGTTGCACTGACAGTGGAGCAGAAA
ATGAAGGTAGTTGTACAGTGATCAGATGAGCAACGATTTCTCCAATGAT
GATGGTGTGATGAAGGAATCTGTCTTGAACCAATAGTGGAAGTGAAGAA
GATCTCAAAATCTGGACTTGAAGAAGAAATTCCTTGATCTATGAACTTTCT
CTGTTATGGTTTATTCTGGGAGCGCTGCTGGTGGTCAATTATTATGCATGT
ATAAAGTCATTAGTGATGAGCAGTGGTACGGGTGGGAATAGCACTACAC
TGTTTCTAGCCTTGTAAGATAAGTCCCAGTGAAGTATCTGATGATGATG
ATCTTCACTGTTATATA

>Sequence 319

AGGTACTTTTTTTTTTTTTTTTTTTTCAATGTTTCAGTTTCCTTTAAT
GACCCCCATCTCCTGAAGGGCAGGTGCAGGCAGCTAGGTGATGGCAAGA
GATGTTCACTTGAAGATCTTGGCCTGATTGAAGGCTTTGCCACATGCTG
GAAGGCCCCCTCCAGGAAAAGTACCAGACATCAGCTGCCTCTTCTCAT
TTTCAGCCAAAGAAAGGGCACGTTCAAATGAGGTGAGAGTCATATCATAC
TGCTGGGCATAGAAGCAACACAGCCCCAGATTGTTAAAAAGCTGGCCGTT
ATAAATGCCCATCTGCAGCAGCCGCTGTAAAACCGGAGAGCTATTTCTG
GCTGATCAGAATAGAAGTGGTTGCTTCCAATGCATGCGAT

>Sequence 320

Table 2

GCGCTAGGGGCAACCCGCGGNGGCGGCTGCCAGGCGTNGAACGNGCACCN
NCAGGAGACGCNCGNAGCCNCGCCGCGTGCNCCGGGGCAGTTAGCCGAA
GAAGCGGCNACGCCNCCAGAGCCACANCATCTGTGGNCGAAAGAGAAG
CCCAGCGAGAGAGGNGNAGGAGGCCNGCAGGNACCN
>Sequence 321
CGGGCTTGAAGCNNATNCGCGCNGGCGGCTGANAAGCTCGTCGGNCGCGC
ACAAGCGGAGNNAACCGAAGAGGGGGCTGAAAGNACGCGTTANCCGGACC
CACCAGNNNCCNGNGNCCAGCGCNGCCGTTTTCCNAGGGGGGCACNNCC
CGCAAAGGCNNGAGNGCAGCGGCCAANCCCGGCNACGGCAGCCNNNGA
NANNCGGNCNCAGNGACCAGCACCTTTTCTTTTTTACCTAGAAGNNG
CCAAGCCACCCGCAACAAAGCANACAAACCGAAACGGGCGGGGGGAAGG
ANCCAGATGNNANGCCAGGAAANGGGANGAAGACCAAACGNGCCANGN
NNCAGAACNAGAGAAGACCCNCGGAAAGAAGAACCGAAGANANNANACA
GANACCAGANAAAGCCCAANNACAAAGAAAGCANA
>Sequence 322
GCGTTAGGAGCTACACCGCGGNGGCGTTTTGGGGACAATACTTACAAAG
ACTCCCGTGACGAAAACACAANNNGNCTTGCTGGCACATTGACCCNAGAC
>Sequence 323
GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTCAATACTTAAAA
ATAGTCTTCCACAAAAATACTTTATTTCTGATCTATACAAATTTTCAGAA
GGTTATTTTCTTTATCATTGCTAAACTGATGACTTACCATGGGATGGGGT
CCAGTCCCATGACCTTGGGGTACTTTTTTTTTTTTTTTTTTTTGGAA
AGCTCTGCCATAAACTTCTAGCGTGTGCCAATGGTCACCTGCCACACTCG
CACCAGGTTGTCCGTGTAGCCAGCAAACAGAGTCTGGCCATCAGCAGACC
AGGCCAGGGAGGTGCACTGGGGTGGTTCTGCCTTGCTGCTGGTACCTGCC
CG
>Sequence 324
TGATGTCGAGCTCCCGCGCTGGCGGCCGCCCGGGCAGGTACTTTTTTTTT
TTTTTTTTTTTTTAGGGGGAGTTAAATAAAATAAGCATGTCTCCATCCT
TTATTCCTAAACATTTACTTATGACAAATGTAACAACTGACAGAAATTTG
AAAAATACCAGACACTTCTTAAATGATTTCCCTTGGTTCAAAATTTACCC
CTTCTTGTTTTCTTGTCTTTTCAGGTAATTAACCTCTCTCTTTTAGTT
TGAACATGTCAGTGCAAGATTCCTCTGTAGTCTTTCCAAGGGGAAGGGTT
TAAAAAAAACCTTTTTTTTTTTTCCCGGGGAGGGGTCAAACCCCTTGCTA
TTGAAAAGGGGTGGGTTTACCGGTTATATAGGTGGTTATAAAAAAATTTT
CAAAAAACAATTTATGGTTTTTAAAAAAAAGTGCCCTGGGTCTTTT
TAAAAATAATGGGGTCCCCCGCGGGTGGGGGAAATTTTTATTAATAAC
TTTTTTTAAACCCCTTCCCTCTAGGGGGGGGCCCCGCCCCCATTT
TTTTGTTTCTTTTGAAGGGGGGGAGATAA
>Sequence 325
TTCGAGTCGGATTGAGCTCCCCGCGGTGGCGGCCGAGGTACCATCAAGTT
AAAAGCAGAAGATGCTTCTGGTAGAGAGCATTTAATCACTCTCAAGTTGA
AGGCAAAGTATCCTGCAGAATCACCAGATTATTTGTGGATTTTCCTGTT
CCATTTTGTGCTCCTGGACACCTCAGGTAAATTCCTCAGAGCTCCTT
AATAAGCATTATAGTCAGTTTTTGGCAGCAATAGAATCACTAAAGGCAT
TCTGGGATGTTATGGATGAAATCGATGAGAAGACCTGGGTACTTGCCCGG
GTCGTTTGTATATTTATCTTTCTGGTACTTACTCTTTTATCCATTTT
ATTCCATCTATATTATCTATTTATTACTTAATCCATTCAATCCTTT
TTAGGGCCTCCTAATTTCTCAGTATCCTGCATATTCGTTTTCTCTATTT
TTCTTTGTTATCTGTCTCTCTCTCTACCTATACACTCTCTTTAC
ATCTTACTTTATAACATCTTTCTATTCCTTTTCTTATATCTGTATGACTT
CTTCAATCATTCTCT
>Sequence 326
TATGATGTGAGCTCCCGTGGTGGCGGCCGCCCGGGCAGGACTTTTTTTTT
TTTTTTTTTTTTTAGGGGGAGTTAAATAAAATAAGCATGTCTCCATCCT
TTATTCCTAAACATTTACTTATGACAAATGTAACAACTGACAGAAATTTG

Table 2

AAAAATACCAGACACTTCTTAAATGATTTCCCTTGGTTCAAAATTTACCC
CTTCTGTCTTTCTCTTGTCTTTCAGGTAATTAACCTTCTCTTTTAGTT
TGAAGTATGCAGTGAAGATTCCCTCTGTAGTCTTTCCAAGTGAAGGGTA
TAAAAAAAACACTTTATATTATGCCAGGTGAGGTGTCAGAACCCTGGCA
TCGGAAGTGGTTGGCTCACGGGTCATTAGGGTAGTAAGAAGAATTTGTA
GAAGACAGTATTGGTTCTAAAAAGAAAGTTCCTTGGTCGT
>Sequence 327
GCTGCCAGGAATATTTGATAGGCCAAGTTTGGCCCTTTTTAAATTTGGG
ATCCCCCGGCGGGGGGAATTTTGTAAAAAGTTTTTGTATACCGGCCCC
CCTTAGGGGGGGGGGCGGCGCCCACTTTTTTTCTCTTTTTTGGGGG
TAATATTCCCCTTTGGCCACATAGGGGAAAAATGTTCTTGGTGGTGT
CTTGTGTAAATTTCAATTCCTCCCTCACCATTCCACACAACCTTCTTCCCG
GGAGCATTAAGGGGTAAGCCCCGGGTCCCTAATGAGTTTAACTA
>Sequence 328
CCGCGTCCGCTCTAGTGTACAGACACTCCTGGGTTTGGAAATTTGTTG
TTCTCTGTCTTTGATTTCTGGAAGACGACACCATGACAATTTCAAAG
AAAATAGAACAATAATGAAGAAAAAGAGGCTCTGTCTTAGCACATTCCTG
TGACCAGCTGTGTCTGTGGCGTGCCCTCCTGGCCCGGCTTGGCACAT
GTTCTGTTTTGTGGTTGTTGCCTGGACAGGCAACTCTGCAGGGCTGCTTC
TCTACGCATCCCTTTGCCTGCCTGCCTGTGCCAGGGGTTGTCAAGGGCTT
TTGGGTACAGTGGGCACCCCTTTCTCCAAGGCTCCCTGCAACAGCTGGC
CTGTCCCTGGTGGGCTGACAGCTTCTTCTTACCCTGCCAGGCTGGCCA
AGCCCCAGAGGTGACCTATGAGGCAGAAGAGGGCTTCTTGGGGCCGTGGC
TACTACTAGCTTGGATGGGCCCCGTGTTGGAGCCCAGATCCTTGGTACCT
TCACTGGGTG
>Sequence 329
AAACTATACTCCTAGTACTATTCAATTTCACTATTATTGTGTAATTATATT
AATTCAGTTAACTTTACTCTCTAAATACTTCTATAAATACTATCTTCTAT
TCATATTCTATAATTTTATTCTATTATTATAATAATTTATTATATAAA
TTTTTCGTTCTCGTTGCGCGCAGATACTTTACAGGATGGCATTTAATAC
AGATATTTCTGATTTCCCCCACTGCTTTTTATTGTACAGCATCATTAAA
CACTAAGCTCAGTTAAGGAGCCATCAGCAACACTGAAGAGATCAGTAGTA
AGAATTCATTTTCCCTCATCAGTGAAGACACCACAAATTGAAACTCAGA
ACTATATTTCTAAGCCTGCATTTTCACTGATGCATAATTTTCTTATTAAT
ATTAAGAGACAGTTTTTTCTATGGCATCTCCAAAACCTGCATGACATCACTA
GTCTTACTTTTGCTTAATTTTATGAGAAGGTATTCTTCATTTTAAATTGC
TTTTGGGATTACTCCACATCTTTGTAAATTTCTTGACTAATCAGATTT
TTAATAGAGTGAAGTTAAATTGTGGGTCAAAAAAGCATTGGATTGACAT
ATGGTTTGGCAGCCTAAGGGTTTACAGGCATTGTCCAAACATTTTGTAG
AACTATATTTATAAGCAGGCATGGATTTCTG
>Sequence 330
GATGATGACTCACCGCGGTGGCGGCCGAGGTACGCGGGGATAGTTCACTC
ACTTTCAAAGCCAGCTGAAGGAAAGAGGAAGTGCTAGAGAGAGCCCCCTT
CAGTGTGCTTCTGACTTTTACGGACTTGGCTTGTAGAGGCTGAAAGAT
CGAGCGGCCCGCCGGGAGGTACTTTTTTTTTTTTTTTTTTGGCTTTC
TTTGCTCCTTTCTTATGATCAGCCACATTTCTTCGACCTCCTTCTCCTTC
ATCCTCAGAATCTGAGAATTCTTCATCACAAGCTATCCGCTTGTCTGATG
CTCGAATAGAAATCTCTTGTCTGGATCTTCTCCATCTTCATCTCCACTG
TCTTCATGAACAGCATCTTCTGGAATAGCCTGCATCTGGACACCAGGTGC
ATGAGGTAACATGCGCAAATTTTCAAACAAACGCTGTTTTATCTTTTCCA
TATATTTGGAGTGTCTGGTTTGTATGTTTGAAGGACTAATATGCAGTT
TGAAGTCTGGT
>Sequence 331
TCTGATGTGAGCTCACCGGGTGGCGGCCGGGTACTAGCAGTTGCCATGAA
GGAGGCTTTGTTCGATTGTATAACACAGAATCAAAAGTTTCAGAAAGAA
GTGCTTCAAAGAAATGGATGGCTCACTGGAATGCCGTCTTTGACCTGGCCT

Table 2

GGGTTCTGGTGAACCTTAAACTTGTACAGCAGCAGGTGATCAAAACAGCC
AAATTTTGGGACGTAAGGCTGGTGAAGCTGATTGGAACATGCAAAGGTCA
TCAATGCAGCCTCAAGTCAGTTGCCTTTTCTAAGTTTGAGAAAGCTGTAT
TCTGTACCTGCCCC
>Sequence 332
TGATGGAGCTACCGCGGTGGCGGCCGCCCGGGCAGGTACCATCTGACTTG
GCAATGTAAGACACACACGTTAGTGTGGGGCACAACGTGGAATATTAGG
AGAGAGCTGGTTCCAGCACCAAATCCAGAGTCACTCGGGGAAGGAGGTAT
GGTGGCAACACTTTATGCTTAATATTCAATTCTGCTCCAGTAGAACATGG
TACCT
>Sequence 333
TTATATGATCACCGGGTGGCGGCCGCTCGGGCAGGTACGCGGGGACTCTG
AACGTGCTAAAAATGGGAAGGAGGCGGTGTTTGTCTGATCTGTAAATTCT
TAGTGAAGTTTCTTGAATTTCCAGTGGCTGCTGTTGTTGAGTTTGGTTT
GGAGCAAACTGAGGTAGTCCTAACATTTCTGGGACTGAATCCAGGCNNG
AAAAAAAAAAAAAAAAAAAAAGGTACCT
>Sequence 334
GATGTGATCTCCCCGCGGTGGCGGCCGAGTTTGATTCTTGCAAGTCCTGA
GCGATGGAGCCCCGGGGTGCCTGGTTATTGTCCGCTTCTCTCTCAGATG
CTTGGCTTGTTTTCAAGAGAACCCTTTTCGATATTCATTGCTCCATCGA
TTGGATCCAGTCCCTGTTTCAGAAAATTGTTTCAAGGCACTTAAGGCTGCC
TGAAAGCCTTGAATCCTTGCTAAATATTCCAGTTGTTTGAAGGTTGTAC
CT
>Sequence 335
TTGCTGGATTGAGCTACCGCGGTGGCGGCCGCCCGGGCAGGTACTTGAC
TGCTAACAACTTTCAAATTCTTCTACTTACTCCCTCTTCTTCAGCTTCAC
ATCTGGGAAAAGCTGATAGGGAAGCCTAGGTAGGCCTACCTTTGGTGCCAG
AGGGAAGCTCAATCCATGCAAGCCCCAGATAATATATGAGAACCTCCCCA
ACCTTACCCTACACCCCTCACCTCCCAATCCAAGCCAGTCTCCTTTCCCT
GCTTCTCAAACCATGTTTGGACCTGCTTGGGAAGCTCCCTCTGCTCTCCC
TAGAAAGCTTCATTATGTGAGTGATACATCTTTTCATATCTTCTGGTGG
TGTGTGTGTTGATCATCAGCCTCAACATCTGAAGCAAATGTTGGGGGGG
GTACCT
>Sequence 336
GATGACGAGCTACCGCGGTGGCGGCCGCCCGGGCAGGTACTCATGAAGG
AGATGGCCCTTTGGGAGCAACCAGAGAATCACTGAGATCCCAATGGAAA
CAGGAGGTTACGCCAGAGGAACCGACTTTTAAGGGATCACAGAGCTCACA
CCAAAGACCAGGGGAACAGTCAGAAGCCTGGCTTGCTCCTCAGGCTCCCA
GGAACCTGCCTCAAAACACAGGTCTCCACGACCAGGAGACAGGTGCTGTG
GTCTGGACAGCTGGGCCCCAGGGACCAGCCATGCGTGACAACAGAGCTGT
ATCCCTCTGTGACGAAGAATGGATGTGCCAGGCCCTGCACAAAGGGCCC
TCTACAGGGGTGCCACCCAGAGGAAGGACAGTCACGTCTCGCTGGCAACA
AGGTGTGCCCTGGGGCTATGAAGAGACCAAGACGCTCCTGGCTATTCTTA
GTAGTTCTCAATTTATGGGAACTCCAGACCTGTGACGAGAACAGCCAG
AACTACAGGGCCATGGCGGAAGGACTCTGGAGAAGGGTTTTTCG
>Sequence 337
GATATGTGAGCTCCCGCGGTGGCGGCCGAGGTACGCGGGATAATCAAGGT
GTCACATCCCGGTGGCTGGACATGCCCTCTTGGGCTTGGCAGATGCCAGT
GGATCCATACAATACTCCGCTGGTGGAACTCTGAGAAGAGCCACGTGCT
GGAGCCATTGTCCAGCCTTGCCCTGGAGGAGCAGTGTCTGGCTTTGTCCC
TAGATTGGTCCACTGGGAAAAGTGAAGGGCCGGGGACCAGCCCTTGAAG
ATCATTAGCAGTGACTCCACAGGGCAGCTCCACCTCCTGATGGTGAATGA
GACGAGGCCAGGCTGCAGAAAGTGGCCTCATGGCAGGCACATCAATTCTG
AGGCCTGGATTGCCGCTTCAATTACTGGCATCCAGAAATTGTGTATTCA
GGGGGCGACGATGGCCTTCTGAGGGGCTGGGACACCAGGTACCTGCCCCG
>Sequence 338

Table 2

GGAGACGCTCGATTTCGGCGGCCGATGACGTGACCTCTCTGGGAAGAAGTT
ATTCTGCAGGCACACATTAGACCCAGNGATGACAACAACNGCACATCAAA
AGGCGGGGGGAAGATGACAGACGGTGCCCGCCAGGGCGGAAGAGACCCA
CCTGGGTGCCTGGGCCCCGACGACAAGGGGGACCTGCCCGGGCGGACGCAC
GAGAACTAGAGGACCCCCCGGCTGAAGGAATGCGAAATCACGCCAAGCG
AAACCGGCAACCCCGAGGGGGGGCCCGGACCCAGGGGTGATCCCTATA
AAGAGGGGGGAAACGCACGCTAGGGGCGAAACACGGGCAAAGGACGGCTCC
CCGGGCGAAAAAAGGGGAACCCGACACAAAAACCAACAACATACCGG
AACCCGGGAGCCAAAAAGGGGAAAAACCCGGGGGTGCCCAAAGGAAAGG
AGGCCAACCTACAATAAACTGGCCCTTGCCCCACAGGCCCGGGTTA
TCAAAAGGGAAAACCCCGCGGTGGCCACCTGGCACAAAGGAAACCG
GGCCAAAGACCGG
>Sequence 339
GATGATTGACTCCCCCGGTGGCGGCACCTTCTTTTGTTTTTTTTTTTTT
TTAATGCTGAAGATTTAGATTTATTTGAAAACACTTAGTCTAATTTATAT
TAGTGCAGAAAAATCACATTCAATAAACACAATTGTAGAAGAGACAGAT
AAGTGTGTTTGTACATTTTCACACAAATATAATTTGATATTTAATTAAG
GGATGATGAATCACATTCCATGTAAATAATGATTTATTCTCTCAGTAATA
GAAGGATTCTCTTTTGGGTATTGAGGGGCTTTTGGGGTTTATTTTCAATA
CAGTGGCCGGTTTAAAAATATAAGGGAATTTTTTTTTTTAAGAACCTTT
TCCCTTTCCAATTTTGGGCAATTTCCCGGAAAAAATTTTCCC
GGGGATAAACCCCCCCCCAGGTGGAAAAAACCCCTTTTGACAAAAAA
TTTTTTGGGGGGGTGTTTTATTTTGAATAATTTTTTTCTCAGGAAAA
AACCCCTTTAAGAGGGGGGGGGGGGGTTTTTTTGTTTTAAAAAAG
TTTTTTTAAAAAATTTTTTTTTTTTAGAGGGGG
>Sequence 340
CCGGGCAGGTACGCGNGGAGCGGGCCCTACCGTGTGCGCAGAAAGAGGA
GGCGCTTGCCCTTCAGCTTGTTGGGAAATCCCAGATGGCCAAAGACAAC
CAACTGTTCGTTCAGGGCCTGCTGATTTTGGAAATGTGATTATT
GGTTGTGCGGCATTGCTGATGGGAGTGATCTTTTTTGTATCTGACCA
ACACAGCCTCTTACCACTTGTTGGNGCCAACGACCACGATGACATCTAAT
GGGCTGCCGGAACGGCATAATTGTTGGCAATTGGCTTTTCTGGCTGGCT
GGTCTAAGCAATGGAAGCCTTATTGAGGTCCACAAGGAAATTTCTGGGC
GATTTTCATTGCGAGGTTATAGGTTAAGCCTTTTGAAGAGGCATTTGGAT
TACAAGAAGCAACACAAACGAGACTTTTTTACACACCCCAACCTCTTCTT
TAACACAATACTATAGAAGGGACCCCTGGGCGCTCTAAAAACATAAAGGG
ATCCCCCGCGCTGTTGGGAATATTTAAATTAAGCCTTATTGATGACC
CGCCGAACCTCCAAAGGGGGGGGGCGCGGACCCACATTTTGTGGCC
TTTTTGTGAGGGGGGTAATACCCCTCTTTTCGGGAAAAATAAGGGAAA
AATGGGTTTCTGCTGGAAAAATTTATCTTTTCCAATATTCACAAAA
TTATAAACCCGCGGGATTAAAAAATAAAAAACCGGGGGGGCCAATAAGG
GGGCGAACTTAACACTATATTGGGNGCGCCTAACCGCGCTTTTTTAAA
GGGAAAAAATTTGGCGCCCTCCTTATAAAAAACCCACCCCGGG
AGGAGAGTTTGTCTATATAGGGCTTTTCTTCTTTCTAATATAAGAAG
GC
>Sequence 341
AGCGACCGGGTGGCGGCCCGCGGCAGGTACCAAAGAAGATGCAGTTA
NAATACTGCCAGTTTCCAAGAAATTTGTAAAGTTGAACATGGCCATCT
ACTCTTGCTTAAAACTTTCTCACCACACCCACCTTCCACATGCATGA
TATCCAAGGTCGACAGACCTGGATTAGAATCACTCTAAGCTTTATGCAGT
GCGTATTGTATTTCTGCATAAGAAAGGGCTGCCTCTAGAACACAGTAAG
TGATTTTGGCCAGTAGTGACATTGCCTACATATAGCCAAGTGTTATAGTA
TACCAACTTAGTATATTTTCAAGGAGAGCTAAACCACCTTTTGTAAATGT
TCGGTTTCTCACTGTTATCTTCTTCTATAATTAATTTTAAATCT
ACAAATTGACATAGGGCTAAAGCTTCAATATTTTAAAAATATTAATTA
ATGTAATTGTTCCCAATTATTAGAACTTTTTTCCATTTTCAAAATGTT

Table 2

TGCCAACTTCACACAAGTGTGTAAAAATAGGGCTCTGGATTTTCAAAAGC
ACATACATGAATAATTTATTAGCTATTCCAGGCAAGCTAAGTACCT
>Sequence 342
TTTGATGACTACCGGGTGGCGGCCGAGGTACAGGTTTGTCTGAATGCA
CTGTCAAGAAATTTAACTTTTATTATAATACTGTTTTAAGAACTTACAG
CATCTGCTTTACAAATGGTGTAGCTACATGTCGACACAGCATCTTTAGC
CAGTTTTCTTTTGGAAAGTTCATCTGATGTCATCTGGAACTGAGTAGCAC
ATTTGCCTGCTCTGTTGGTGGCCTCACAAGCAAGGCAAAAGCATTATGGC
AATCTAGGGTTCAGAATAACCATAAAATTAAGTGTCACTCCTTGGAAA
ATGACAGATGTATGCAAGTTTAGTTCCCTCAGAGCAATGAAATTCCAATG
AAATGAATATCACTTCTCCACTTTCCTTGTCTATTTTTAATAAGACAA
AGAACATCACCATATTAAGTTGAAGTACCTGCCCC
>Sequence 343
CCGGGCAGGTACATCAGAGATGCTCACACATTCTTTGAGTAGTTAAAAA
CTCATTTTAACCACTTTTTATTCTTTGTATTCAAACCAATCACTGGCAAT
AGCTCTAAGTAGGTCATCAACTCTCTCCATGTCTTCTTTCTAATTCTGC
CACAGACTCACTTCTTCCGTAAATTAATGGAAGGAAATGAGTGTCTGAGT
TCTTAGAATCTCAAAAGGCATGAGGATAAAGCTTTCCTGGAGATAATATA
AGTGGTGGCAGGAAGATTTGGGAGCCAGATGATACTCTTTTCTCTTAGA
GAACTCTGTGGAAGCTCTGCCTATACTGTGGGAAATAAATTCTAGACGC
TGGCTTCTTTCTGTAGTAAACATGTGGGCCCTTTAAATGTTGAACCAAA
ATGTGCTTCAAATATAGTTTAGTTATAAAACATTTATGGGGGAGTATGTA
TGTGCCAACTACAGAGGCTTCAGAGATGAAGAAACAGTTCTTACCCTAGT
GTTGCTTAGAATCTAGTAGTAGTAAGTAATAATTACTAACATATGCATTT
ACTATATAGGCAATACTAGGGTAAATATTTACATAGATTACCTTATTTA
GTAGCTCTTAGCTGCTAAAAAAGATTAAGATGTCCAGTCTAG
AGTCTCATAATTGTATGGTAAACACTAAATGGTGGTATGGATCAGTTGC
CATGGAAACACAGGGGCGNGCCCTCAGCTCAGTTTAGGAAGGAGCAGAT
TACTGAGTGTGGTCTTTACTGGGTAATACCTGAAGAAAGAGAGGTTGGCC
CCCACAGCAGAGGAAGTACAACAGGCAGGCCT
>Sequence 344
AGGTACTTTTTTTTTTTTTTTTTTTTTTGTGGGAGTTAAATAAAATAAG
CATGTCTCCATTCTTTATTCCTAAACATTTACTTATGACAAATGTAACAA
CTGACAGAAATTTGAAAAATACCAGACACTTCTTAAATGATTTCCCTTGG
TTCAAAATTTACCCCTTCTTGTCTTCTTCTGCTTTTCAGGTAATTAATC
TTCTCTTTTAGTTTGAACATATGCAGTGCAAGATTCCTCTGTAGTCTTTC
CAAGTGGAAAGGTATAAAAAAACAACCTTTATATTATGCCAGGTGAGGT
GTCAGAACCTGGCATCGGAAAGTGGTTGGCTCACGGGTCATAGGGTAGT
AAGAAGAATTTACAGAAGACAGTATAGGTTGCAAAA
>Sequence 345
AGGTACACTGCGGCGGGGGCAGAAAAGCTGCAAGGAACAGAACCAGCAAT
GCAGAAGCTCCTCGAAGGGCCACCATCATCCTGCAAAACACCAAGCAGGG
CAGTCTCTTATGCTGTGGCTCTTCTCAAGGATGTCTCAAGGGCTCCGGTG
GTGCTCTCCTGCTCTATCCGCTGCTGTGGCAATCCTCTAAAAACAGCGT
TTTGCACAGCAGAGAGCAAAAGTCCGCTTGTATTCCACCCGATACGTGAG
CTCAGTTTGCCAGCTAGTGATCAAGTCCAGCTGTTGGCAAGTTGGTCCCT
GAGGCCTTGTAGACTGACCTGTGGCAGAGAGCTCCCTGGGTCCAGCATCT
GTTGCCCTCACCTTGACACATGCGGACCCTCCCCAGGCT
>Sequence 346
GGGTACAAGAGATAGAAAGACCAGTCCTTGCTGAAAGACAAGTCTGAATG
CTCCACTTTTCAATTCTCTCTCCATTCTTCAGTAAGTCAACTTCAATGT
CGGATGGATGAAACCCAGACACATAGCAATTCAGGAAATTTGACTTTCCA
TTCTCTGCTGGATGACGTGAGTAAACCTGAATCTTTGGAGTACCCATTCC
CTTGATGTCTACAATATCACCTTTCTTATAGATTTCGCATATATGTGGCCA
AAGGAACAACCTCATGTTTTCTAAAAGGCCTAGAGAACATATATCGGGTG
CCTCTCCTCTTTCCCTTTGTGTTCTGTCATTTTGCGCAATTACTGGAAGAT

Table 2

G
>Sequence 347
CCGGGCAGGTACCACGCCCAGCTAATTTTTTATGTTTGTAGTAGAGACG
AGTTTCACCATGTTGGTCAGGATGGTCTCAAACCTCCTGACCTCAGGTGAT
CTGCCCTGCTTCGGCCTCCCAAAGTGCTGAGATTAGAGGCATGAGCCACCA
TACCTGGCTCTTTTGCTTCATCCATCCCTTAATTTCTTTGCTGGAGCATT
TTAAAGCAAATATCAGACATACCCTTTACGCCTCACACTTCAACATGCG
GCTTGTGAAATTCGTGCTCCACTCCAGCAACTGCTTTCAATCGGAGTTC
CATCTCCGCGCAGTATGCCCTAACGCAGCGTTATCTTCAGAGCTACTA
CCCAGTTTCCGAAACTTTTCGAGGGAGCGCTTTGGCACCACCTTGAACGG
GGAACGGGTGCGTAAACCAAACCTTGGAACGCCAGCCCCCGCGTACCTT
GGCCCGTTT
>Sequence 348
AACGATGACTCACCGCGGTGGCGGCCGCCGGGCAGGTACTTGACTGCTA
CAACTTTCAAATTTCTTACTTACTCCCTCTTCTTCAGCTTCACATCTGG
GAAACTGATAGGGAAGCCTAGGTAGGCCTACCTTTGGTGCCAGAGGGAA
GCTCAATCCATGCAAGCCCCAGATAATATATGAGAACCTCCCCAACCTTA
CCCTACACCCCTCACCTCCCAATCCAAGCCAGTCTCCTTTCCCTGCTTC
TCAAACCATGTTTGGACCTGCTTGGAAGCTCCCTCTGCTCTCCCTAGAAA
GCTTCATTATGTGAGTGATACATCTTTTCATATCTTCTTGGTGTGTGTGT
GTGGTATCATCAGCCTCAACATCTGAAGCAAATGTTGGGTGGGGGTACC
T
>Sequence 349
GAGTCGACTCACCGCGGTGGCGGCCGGAAGGAGGAGAGGTGCTGTGCTGT
GTATGAAGAGGCAGTGAAGACTCTGCCAACAGAGGCCATGTGGAAGTGTT
ACATCACCTTTTGCTTGGAAGATTTACTAAGAAGTCAAATAGTGGGTTC
CTTAGAGGGAAGAGGTTGGAAAAACCATGACTGTATTACAGGAAGGCACA
TGAAGTGAAGCTTCTGTGCAATGCCAATACAAGCAGTTGAGTGTTTCGT
TGCTGTGTTATAAATTCTTGAGGGAAGCTCTGGAAGTGGCAGTAGCTGGA
ACTGAATTGTTTAGAGACTCTGGGACAATGTGCCAGCTGAAGCTGCAGGT
GCTGATCGAGTCAAAGAGCCCTGACATAGCCATGCTTTTTGAAGAAGCCT
TTGTGCACCTGAAACCCAGGTTTGTCTGCCATTGTGGATTTCCTGGGCA
GAGTGGAGTGGAAGGTGCCAAAAGCCAAGAAGACACTGAGGCAGTCTTTA
AGAAAGCTCTTTTACTGTATAAGTGC
>Sequence 350
GGCGAAGTGAGCTCCCGCGGTGGCGGCCGCCGGGCAGGTACCCGTGCTA
AAGACTTTTAGTTTCGGCTCTCCAGTGTTTTTTTTTCGTGATTGGGCA
CAGAGTTTCTGGTTCACGTGGATGTGAGGATCCTTTACTCCAGATCGCC
AGCCAGTTTTGTGTTTTTTCTGCGTTGCTGAGAGTCTGGGTTTATTCA
TCACACCAGGTGGATCTTAATTCATATCCCTGAGGCCACTGCAATGAGG
CAGAGGAGTGTGCTCCCTCATGAGAAAGGACTGGAGACCGCCCCCAGAAG
AGAACGTATCCATGTACCT
>Sequence 351
GTAGATGGTTGACTCACCGCGGTGGCGGCCGCCCGTGTGCTGCTTATTA
TTGCCCGTTGTTTCTGGATGTGAATGGATTACAATGTATTTTTTAGGGA
AATCCTATTATTATCAATGTGACTCCACGGGGGAGTCCATGGTGATGATG
ATGAGGAGGAGGATGATGATGATGAGACACCTCTAAACTTGGAACAAGTT
TAAGACTTTATGAGAGAAGAAAAAAATCACCAACAAGAATTGTTGAGG
AAAAATCATAACTATCCTGTGTTTCATTTTTTTTTATAAACAATAAGAA
AAAGTTGTTGGATTTTTTTTAAATGATTTCTTTTTTGGGGGAGGGAATTT
TGTTGCAGTTTTATGGTGGAAAAATGCAAAAACCAGAGCCAGGTGCATAAT
CTTGTAATCTGTGGATATCCCTGGAGCAGGACTGATGTCT
>Sequence 352
TGATGAATCGACTCCACCGCGGTGGCGGCCGCCGGGCAGGTGTTGTAACA
ACGCAGAGTCCCGGGAAGCAGTGGTAACAACGCAGAGTCCCGGGAAGCAG
TGTAACAACGCAGAGTCCCGGGAAGCAGTGGTAACAACGCAGAGTCCAG

Table 2

GGAAGCAGTGGTAACAACGCAGAGTACCCGGGGAAAAAAGGCAAATAGAA
TGAGAACCATATTATGTACCT
>Sequence 353
GTAGAGAATGAGCTCCCCGCGGTGGCGGCCGAGGTACACCCAGCTTTGTC
TCCTGGCCCCAAATCTCCTTTTCCCTTACTTTGGGCATTAAGTGTGTTGA
GGTCTCACAGCCTGATGGTCATTATCCCTGAATGGCATAAATCAACAGGC
TGTATGAGCATTGTGTGAGATTCTACATGAGGGAGAGCATTTCAAACCCA
TGACAGATGAGAGAAGTTAGTACACTCTCACTGAACTGGGGATGTTTGAC
TAAAAATGATGGACAATAAGATAGTGAGCAGTAAGTGTGCTCTAGGCTAG
GCTACGAGAGGCCATGAGCTCCTCATCTCTTCTGTTCTGAGCTCTCTG
ATCCACCGCACTTGGGGCAGGGGGTGCATTCTCTGTGCCTCTCCTGAGTC
TACTTTCTGCATCATTGGTTCTCCAGCTCACTTCCATAATGTCTCCTA
GGCTGCATTGGAATTGTGTGTTGTCTAGACCCATGGCCAACACTGTCAAT
GCCTGTGAGGGAGACCAAGCTTACCACCAAAGGCTTTTGCG
>Sequence 354
GATGGGTTGAGCTCACCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTT
TTTTTTTTTTTTTTTGCCTTTAGAAGGTTAAATGCCAATATAAAGCTAA
AACAGTAATCATCAGAGACAGCTCTAATAAGGCTTTGCTACTGTTTTTAC
TATATAAATCTTTACGTGTTAATGGAAAGAAAATTAATTCATTCTGTTAC
TCCATTTTTTCTCTCCATATTGTATGCCTGAAGTGAGCTGATGAGGGGC
AGAAAGATCATACAGTTAGGAATGAAGACATCAGAATGTTCCACTAAACA
GATATTTAACTAGATACTATTATACTACTAAGAATAGCAAGAATGTCTCT
CAATTCTGGGAATTTCTCCTAGCTCACACAAATGAAACGCACATCTCCAT
GAATGCTTTCTAATAAATGCCTTCCAGGATAGTATCATAAACAAGTCAAA
ATTAAGAAAAATCACCTCCATGGCATCCTGGTCATTCTCCATCAGCTCAC
CTTCTCTTATCAGAATCCACAACCTGCTTTTTTGGTTTTTCAACAGTG
>Sequence 355
GCTGAGATGAGCTCACCGGGGGCGGCCGAACCGCCATCTTCCAGAATTCG
CCAAAATGACGAACACAAAGGGAAGGAGAGAGGCACCCGATATATGTTT
TCTAGGCCTTTTAAAAACATGGAGTTGGTCCTTTGGCCACATATATGCG
AATCTATAAGAAAAGGTGATAATGTAGACATCAAGGGAATGGGTACTCCAA
AGATTACAGTTTACTCACGCCATCCAGCAGAGAATGGAAAGTCAAATTTT
CTGAATTGCTATGTGTCTGGGTTTCATCCATCCGACATTGAAGTTGACTT
ACTGAAGAATGGAGAGAGAATTGAAAAAGTGGAGCATTGAGCTTGTCTT
TCAGCAAGGACTGGTCTTTCTATCTCTGTACCT
>Sequence 356
GATGATTGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGACTGTGGCTCAGA
TCTGCGTGCAGCAGCGAGAGAAGAAATCACTCCATATCCGATGAGAGGA
AGGGTGGCACAGAGATGGTGCTACAATTAGAGACATTTCTGACTCCACC
TTAGCCTAAGCAAACCTTTATGTACTGAGTAACATTTGAAGGTTGTCTTTT
AATGGTGGGGGGTGTTTTTTCCCTTTTAACTACAGTGCTTGCACAAGAG
AGGGAGGGACTCAGAAAAGGTTAGGGCAGGTGAGGGAGACAGTAGATGGC
CTGGGATGACTTGAGTCCATCATACTATTGCTTGGCAGGTGTCTCCCCC
ATGTTTGATTCAAATTCATGAGTGACCTACCTTTCCCCAGGAATGGGAC
TGAGAGGGTAGTCTTCCAGCAACTTAGTCTGCACAGGGCTCCCGTTTCA
GCTGCCCTTGGTGGTTGTGCTTTTGTAAAGTTTCTTCTGCACTTCGAC
TTACCTTTGAATCAGAAAGCAAGCCCAGCAGGTGAATGAGGGATGTCTGT
G
>Sequence 357
GATGCAGTTGAGCTCACCGCGGTGGCGGCCGCCCGGGCAGGTACCATCTG
ACTTGGAATGTAAGACACACACGTTAGTGTGGGGCACAACGTGGAATA
TTAGGAGAGAGCTGGTTCCAGCACCAAATCCAGAGTCACTCGGGGAAGGA
GGTATGGTGGCAACACTTTATGCTTAATATTCAATTCTGCTCCAGTAGAA
CATGGTACCACCATCTTCCAAAGTTCAAAAATTATCTTTGATTCAATTTG
TTCCCCATTCTCTAATATGTCACCAATTCTGCTGATACATTCTTTGTAA
TCTCTCCATCTATTTTAATCTGTTATTCACCTGAGCTACACAAACATTCA

Table 2

TCTGCACAAGGAGTATTCCACGTGCTGAAAAGACAGAGGATTAAGCCCTC
CTTGTGGAGGCATTACAGTCTGGTTTAAATACACAAACCAACAATTATA
ATACACAGGGATAAAAAAAGTAGAGGCACTTATTGCATACCTGTACCT

>Sequence 358

TGTACGATGAATCGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTCTAG
CAGTCTGTGGCCACTCCATACTCAGCTGAAAACACTGTTTCAGCCCCCTC
TCTGGTGACCTCAGCCTTCTCCAGGTGTATCTCTTGATGATCTTGGAGAC,
CAGCAGCCACAGCTGCTGCTACTCCTGCAGGAGACTGTCAGGCTGTGGTG
GGGGGCAGGGGTGTTGGAGGAGAAAGTTGAAAATCCGTGTGTTCTCTGTCC
CTCTGCTCCTCCATCTTAGCTTCTGGAGGAGTTAAGGCACCAAGGGCACC
AAGTCAGGTTTGGCAGTTTTTGCTGCCCTTTGCCCAAGGCTTCAACAAAA
CCAAGCTGGTCCCCTTGCTTGGTTGGGTCCCAACCCAGGGGGGATTGGG
GTGGGTGGATAAGAACCCACCACTTGTTTTTTCCCCACTTTTTTTATTA
GGGGAGGGTTTTGGGTTTGGTTGGGTTTTGGGGGGGAGAAAAAAAATC
CCACCTCTTTTTTAACTGGAAGGCCCGGGGTCCAATTTAATTTTATT
TGGACCTCTCTTTTCGGGGTAAACAT

>Sequence 359

ATATGAGCTACCGGGTGGCGGCCCGCCCGGCAGGTACTGGTGTGTGATC
GGAACGTGTCGATCCCCCTTCTCATCACTGCTGCTCCAAGTGGATTTAT
TACTCCGGGAATGGTAGAGATAAAGATTGTAGGAAAGGTGCTGAACTG
CCAAGGAAGGCATTTCTTGTGCCGTGTCTGGAACCGTGTATCCTTACTAC
ATCACTGAACGACACCAAGCACCCCATGCACTTCTGGGTCCAACCTTGGC
CCCTGAAGAAAGACACTGAAAATTGGAATGCAAGCTACTTCCGTAGGGGG
GATTTCTTTTATAATGGTAAGGCCCTTTAAAAAAGGGCTTAACAACAAAA
AAAATTTTTTCCCCCGGGGGAGGTGTTTAGGGGGAAAAAGGGTTTTTCC
CCCGGGGAAACCCCCCCCCCTTTTTCTGGGAGGGAAAAATTTTTTGGGTC
CTGGAAGTTTCAAAAAATAAACCCCCCTTTTGTTTTTTAAAAACAAC
ATAAAAGGGGGTTTTTTTTTTTGAIAAAAAAAAAAAAAAAAAATTTTGAAC
CCCCCTTGTGTGGTTTAAAG

>Sequence 360

TTAGGACTACGGGGCGGCGGGTCTCTGCAAACTAAACACGCCCCGAGGA
AATTTGGCCAGTTATCCAATTGATGAACTAGTAGATAGAGCCAAACAATC
TTTTCAAGAGGGTGTGTGTGAGATATGGTTGACCAAGTGAAGACACGGGGG
CTTATGGCAGAGATATTGGCACCAATCTGCCCACTCCTGTGGAACTG
GTTGAAGCGATTCTGAGGGAGCAATGCTGAGGCTTGGCATGACAAATCC
GCCCTATATTTAGAGCATCTGGAGGAAATGGCAGAAATCCTTAATCACC
CCAGAGTCTACGCTTTTCTGCACATACCAGTCCAGTCTGCCTCCGACAGC
GTACCTGCCCG

>Sequence 361

GTCGACGTGCATTGAGCTCACCGCGGTGGCGGCCGAGGTACTTAAACCA
AATAAAAAGTGACATTTGAATTTCTTTTAAAAGGATTTCCGAGCTCACAG
TCAGCTTGGGAGCCATTCTCCGCGTACCAGCACAAACCGGGCCAGCCTC
CTAAACTGCTCATTTACTGGGCGTCTACCGGGAATCCGGGGTCCCTGAC
CGA

>Sequence 362

GTCGAGATGCATTGAGCTCACCGCGGTGGCGGCCGAGGTACGTATGCACA
GCCTCACACTCTATAAATGTATGTGTCTGAATTTAGAGCTTAATAATG
AATTATGGAACCTTGATAATGATTGGATCAGGCAGACAACACCTGATCAGT
CCTAATATCAGAAAAGAGACAAGTAGACATTATGTGCTTCTGAGGTGAG
GCAGTAGTAAGGAAACAATCACACATGTAGCAGTCTTGGGAAAAAAAAA
TGTAACCTGTATCTCGTAATGAGGAAACAATCAGTAAAAAAGTCTAGATT
GTGGGACATTCCACAAACTTGCTGAACTCTTAATAATGTCAGTGTCAT
GAAAGACACACCACACACACTGCACATCATACAAAAACCAACCCC
ACCACCCACCACTCAGACACACAAAAAGGGCAACTCTAATCAATTAAAG
GAAACAAAAAGAGATGACAACTACATATAACGTATAATTCTTGATTGGAT
CCTGGATTTAAAAATAAACAGCTATAAAGGATTTTT

Table 2

>Sequence 363

GCGATGAGAGTTGAGCTCCCCGCGGTGGCGGCCGAGGTACTTAAACCAA
ATAAAAAGTGACATTTGAATTTCTTTTAAAAGGATTTCCGAGCTCACAGT
CAGCTTGCAGCCATTCTCCCGCGTACCAGCACAAACCGGGCCAGCCTCC
TAAACTGCTCATTTACTGGGCGTCTACCCGGAATCCGGGGTCCCTGACC
GA

>Sequence 364

GTTGCGTGAGCTCACCGGGTGGCGGCCGGGTCAACGCAGAGTCCCCGGGA
GCAGTGGAACAACGCAGAGTCCCCGGAAGCAGTGGTAACAACGCAGAGT
CCCCGGAAGCAGTGGTAACAACGCAGAGTCCCCGGAAGCAGTGGTAACAA
CGCAGAGGCTTTCAGCACAGCCCAGGGTGCCCGGGACTGAAAACCTCTTC
ACCAGCCCCCTCCACAGGATATAGAAGACTTAGATCACTACGAGATGAAA
GCAGAGCCCATTAGTGGGAAAAAGTTGGAGGATGAAGGAATTGAAAAAAA
AAAAAAAAAAAAAAGTTCTGCCCCG

>Sequence 365

GATTATGTGAGTGATTGAGCTCCACCGCGGTGGCGGCCGAGGTACCAAGC
ACTGGGTAAAGCACTTTTGTGGAGCATTAGACAGTAACCCTCAAGGAGCT
AGAGAACCGGATGGGAGACATGAGCGGTAATTAACCTCACTTGTCCCCAG
AGTTTCTATTTGTTTTGTTTTCTTTTTCTGTGACTTATTTTCTATTTTC
TTTCTCCATGTAAATTTTCACTATGGCCCACTAATAAAACACCTGGAA
ATTACAAGGAAAAAAATTTCTTCTCTAATAACTTTCCAAATTTGTGGAA
TATTTATTTGTAATAGCAGTTATCAGTTATGCTTATATAGCATTAAAAAT
TCTCTCTTTTGACTACACACACAACCACAGTGTGGTTCTAATCATGGAG
ATATCAGTAATTTTAGTAAGTGAATTTTGAGGACATTTCTCTGTTTAGC
ATGTATGCAAACCTGATATGTAATCCGGGGTTCCAAAGTCAATTTTTTCT
TTTTTTTTGAGATGGAGTCTTACTCTGTAC

>Sequence 366

TGTGACGTGAGTTGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTGCATCC
TTCAACCCAATCAAGCTGACACTCAGTATTAACCATCAAGGCGTGAGG
ACAGATAGCTGCATCCGCAAAATAGAGAACCAAGAAATAGTCCACACCA
AAGTCAGGATCAAATGATTCCTGGACAAGCCACCAAGTCAATTCAACTGA
GAGAAAGAAGCCTTTGCACCAGTTGGTGCTGGAAGTTCTGGATATGCACC
TGGATAAGTGAACCCCCCTCCGTCACCACACACAAACGTTAATTTGAGAT
GGATTGCAAACATAAAAGCTAAAACCATTAACACTTCTTGAAGGTAACAT
AGAATATTTTGTAATGTTATGATAGGCAAAAGTCTCTTAGGACACACAAA
AAAATTAACCATAAAAGAAGAAAATGGCTGGGTGCAGTGGCTCACACCTT
TAACACCAGCATGTTGGGAGGCTGATGCAGGAGCGTCCCTGAGCTCAAGA
GTTACAGCCAGACTGGCAACATAT

>Sequence 367

GTATGATAAGAAATCGACTCCACCGCGGTGGCGGCCGAGGTACATTGAGAT
TCAAGAGAAAAGTCACAGCAGGTCTGAGCTCCTCCAGCAGGCCTTATGTA
ATGCTAAGATTTTTGGGGAAGATGAAGTTGAACTGATGAACTGGCTGAAT
GAAGTGCATGACAACTGAGCAAGCTCTCAGTCCAGGATTACAGCACTGAG
GGGCTATGGAAGCAGCAGTCTGAACTTCGGGTCTGCAAGAGGACATCTT
ACTCAGGAAACAAAATGTAGATCAGGCTTTACTAAATGGTTTAGAACTAC
TTAAACAAACCACAGGTGATGAAGTTTTAATAATTCAAGATAAATTGGAA
GCCATTAAAGCAAGGTACTGCCAGATACGAATTGAGCATACCACAAAAAA
GTTCTCATTTTGTGTCTCCCATCCCATTTCTCCTCACTAACCAAAGGCTA
GGAATTATCTGTGAATGTAGGACCACTGGATTTGCAGTCTTCATCTGACA
CTGGGGAGAGTTTCTAGGAATGAAAT

>Sequence 368

GATGTTTATCGACTCCACCGCGGTGGCGGCCGCGCCGGGCGAGGTCAATGTG
CCAGGCACCTTACAAGACACAAATATGCTCTTATAGGCTGGGGAAATAAG
AAAATATGAATGAAGCAACCCAGGTCTTGAGCCAAAGAATTACCTGGGGT
CCGTTGAGTTCAAATCTGAAAATTTCTGTCTTTCAAGGTCAGCATCGCCC
ACAAAC

Table 2

>Sequence 369
TGTTGTGATCGACTCACCGCGGTGGCGGCCGCCGGGCTGGTACGC
GGGGGTTTCCGGTTTGGGTGTGGCCGCATGGCGTGCTGGGGTGCAGGTGG
CCGAAGGGGGCGTTACTGTTGCGACTGGCATCCGCATCCGGCAGATGTAG
ATGGAACCAAAGCCAGAAGTTACGCGTCACCCTTGCTCTACAGCCAAACA
TGCAGGACTCTAGTAACCCGCGAAATGATGGGATAGCGTTGCAATCCTT
AAAAGAGTCTTAACGGAGAAGGAAAAATGTTACATTGTCAAAGTCCCAAA
GCCTTTCAGCCTGAAGCCAGGAACAATTGTTCAAAGTTTCTTTGGAACAT
CAAGGAAGGAAATCCAGATTTTACTTTAAGTGCAATGGGGAGTCATTAAG
GATTTTGTGTAGATACAGCAAAAAGACAACAATCTTCAAGCCACAATGGC
CCTCACCAGAACCCAGCCATGTGGTCAGCCTGATCTCGGACTTCACAGCC
AGCAGAACTGTGAGAATTAATCT
>Sequence 370
CAGCCATTTTATGATAAGGCCACGGTTGGGCGGTTTAAACAAGGGGGT
CCCCGGCGTGGGGAAGATTTTATTAAGCCTTTTTGTACCCGCCGCTC
CAGGGGGGGGGGCCCGCCCCCTTTTGTCTTTTTTTAGGGGGGA
AAATGGCCCCCGGGGGAAAAAGGGAGAAAAGGTTTTTTGTGTGAAAA
AGGGTTTCCCCTTCAAATTTTCAAAAAAAGCGGGGGGG
>Sequence 371
GGACGCGGAGTTGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACGAT
TATTTTAAACAAGCCTACGTCCCTGACTAACCGAGTGGAAGGTGTGAGTG
GCACTACAAATTCACAAAAGAACTGTAGCCTCAGATAATCAAAGGAGAGA
AGGTGAGATGCAATCACTGATGCATGCTAGTAATTCTCAAACCTTCGTTT
TCAGAAACGATTGGATTTTCAGATAGATTTGCAGTAAGAGAATAACAAGT
CTTTATTTTTTTCATCCCAACTTCTTTCTTGACATTTTTCTTCTAGCTA
TATTTAATATCTGTTCTCCACACACTTGCTAATCTACATTTCAATC
TTTTTCCACTTCACTTTGTCTGCANAGAAATCTACCTGGACAGAAATAGCA
TCTTTTTTTTTTCCCCTGACCCTTGGCATTTCTCTCTCTCCAATTCTG
CCTGATCCTAGGATGGACTCTCTCATCCCTCATCTCTATCATTAGCTCT
CAGGCTGG
>Sequence 372
TGGACGATGATTGAGCTCACCGAGCGCGGTGGCGGCCGCCGGGCGGAGGTA
CGCGGGGATGTCTCTTGTGAGCTGTCTTTTCAAGACCTGGTGGGGCAAG
TCCGTGGGCATCATGTTGACCGAGCTGGAGAAAGCCTTGAACCTATCAT
CGACGTCTACCACAAGTACAAGAGATAGAAAGACCAGTCCTTGCTGAAAG
ACAAGTCTGAATGCTCCACTTTTCAATTCTCTCTCCATTCTCAGTAAG
TCAACTTCAATGTGGATGGATGAAACCCAGACACATAGCAATTCAGGAA
ATTTGACTTTCATTCTCTGCTGGATGACGTGAGTAAACCTGAATCTTTG
GAGTACCT
>Sequence 373
TGAGATGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGGAGAAGGAAT
GGAAAGCCTGGAGAAAAGAGGATGAAATGACGGATGAAGCAGTTGGAGACT
CTGCTGAGAAGCCTCCTTCTACTTTTGCTCACCTGAGACTGCTCCAGAA
GTGGAGACCAGCAGAACTCCACCAGCCTGTGAAACACGAACCTTCAAT
CAAGAAAAAGACCTTTGATCAGGAGAAGACTTCTCGTCTCATTTCTGGGA
CACATTCAGGATTTCTCAAAGCAGGTGAAGGTACCTGCCCC
>Sequence 374
TGAGATGGTCACGGGTGGCGGCCGAGGTACGCGCCAGTCACTAGCAGGTC
CTTGTAATCTCTCACGGAGGCACTTGCGAGAGTTAATGGGCAGATGGA
AGGAGATGGCAAGGACCAATCTGGGGCCGAGCAGGAACAAAAGCAGCAAC
GCTAACGGAAGGGGCCGCGCGGCTGGTGGGCCAGACAAACAGACAT
GGTGCTCCCCGCGTACTCCTTATACTTATTAACACAAAATTAATTGTAA
AATAGCCTCAGGAGGTCTTCAGGAGGTATCCAGAAGAAGGCATTGTGA
TCATAGGAGCTGATGGCTCCGCTGGGTACTGCCCTGTAGACTTCCAG
TGGGACAGGATATGGAGGTGGAAGACAGTGACATGGATGATCCGGACCCT
TTGTAGGTCTAGGCTAACGGGGGTGTTGTGTCTTAGCTTTTAAACAAAAA

Table 2

AGGTTAAAAAGTTAAAAAATAATAAAAAANTAAATTNTAGGTACCTG
GCCCCGGCGCCGCTCTAAACTTGGGGAATCCCCGG

>Sequence 375

GATGCCCCCGGTGGCGGCCGAGGTACCTCAGCTGTTGATCTGTGGAGCC
TAGGAATCATTTTACTGGAAATGTTCTCAGGAATGAACTGAAACATACA
GTCAGATCTCAGGAATGGAAGGCAAAACAGTTCTGCTATTATTGATCACAT
ATTTGCCAGTAAAGCAGTGGTGAATGCCGCAATCCAGCCTATCACCTAA
GAGACCTTATCAAAAGCATGCTTCATGATGATCCAAGCAGAAGAATTCCT
GCTGAAATGGCATTGTGCAGCCCATTTCTTAGCATTCTTTTGGCCCTCA
TATTGAAGATCTGGTCATGCTTCCCACTCCAGTGCTAAGACTGCTGAATG
TGCTGGATGATGATTATCTTGAGAATGAAGAGGAATATGAAGATTGTTGT
AGAAGATGTAAAAGAGGGAGTGCAAAAATATGGACCAGGGGTATCTCTA
CTTGGTCCAAAGGAAAACTCTGGCAGAGGAACAGTCTTTGTTGAGTATGC
AAAGGCTGGGGATTCAAAGTTGCGCAGAA

>Sequence 376

CACATCTTATAATTATTTATTTTCACTACTTATTATTCTAATTTATACAC
AATCTTTCTTATTTATTTATTTCTTTTCTATTTATTTACTTTTTTATACTAC
TTTTTTTCAATTTTGAGATGGAATCCCCGCGCGCTGCCTTGTCTTTTA
CTGCCCAGGTACAGGTCTCGAAAAAGCGGGTGGTGAATGCTCCATGGG
GATGAGGGGAGCACGCAGTGGAGCCAGCTCGGTGTGGGAGAGGTACCTCT
AAGGTGTTCTTCTACCTAGCCTAGTTTTTTTCTACCAACCTAGTTCAAC
TAGTTTCTCTGCCTAACCTCGTTAGATATCACTCTTCGCTGCTTCAAGAA
ACTAAAGCAACACTCCTGATATTAACCTACTACTCAGTTTTGTGTGGCAA
AACAGAGATCATATCCCATTTGTCTTTGTGTCTCTGGCTGTTAGCACAAA
GTTTAGCACTTAATTCATGCTCTACAATGTTAGTTGAATAGGTGAGTGAC
AGAATTTGTTATTTCTAAACCTTACTGTTTGTAGTGAGAGGGCAGATG
TTAAAGTAGCTCATTGACGTTACCCCTTTTTTGTAGTAAAGGGAAAAGGA
GGTAAGATTCCCCCAGGTCTTTGTGGGCCAGTAATTTGGCTTGAATT

>Sequence 377

TGTATGCGTGAGCTCACCGCGGTGGCGGCCGGACGGAGGAGAGGTGCTGT
GCTGTGTATGAAGAGGCAGTGAAGACTCTGCCAACAGAGGCCATGTGGAA
GTGTTACATCACCTTTTGCTTGAAAGATTTACTAAGAAGTCAAATAGTG
GGTTCCTTAGAGGGAAGAGGTTGGAAAGAACCATGACTGTATTCAGGAAG
GCACATGAACTGAAGCTTCTGTCAGAAATGCCAATACAAGCAGTTGAGTGT
TTCGTTGCTGTGTTATAACTTCTGAGGGAAGCTCTGGAAGTGGCAGTAG
CTGGAAGTGAATTGTTAGAGACTTTGGTACAATGTGGAAATTGAAGCTG
AAGGTGTTGATCCGAGTAAAAGGAGCCCTGGCAATACCATGCTTTTTTTG
AGAAAATTTTTTGGCCCTGAAACCCCAAGTTTGTGTTGCCATTGTGGGA
TTTCTGGGCAGAGTGAGTGAAAGGGTCCCAAAAGCCCAGAAGACACTGT
TG

>Sequence 706

GGTACGAGTAAATTTTCATTACCTTTAATTAGGCAATGTTTCTTAGATAA
CCATAAACTGCAAAAGCAATTTTAAAAATGATAAATAGGACTTCATCA
AAAAGTAAACGCTTCAAAAGATACTACTGAGAAAGTCACAGAATAGGAGA
AAAATCTGATGAGACTTTATGTCTAGAGTAATGAATTCTTGTTAACGAAT
AACCAACCCCTTTTTAAAAATGGGCAAAAGATTTGAATAAACATTTCACT
ACAGACAATAAACAAATGGCCTTAAGCACAAAGAGATGCTCAACATCAGTA
ATTATTAGGGAAATGCCAATCAAACTACAACGAGATACCCTATATCCAC
TAGTATGGCTATAATAAAAAAGAGTAACAAACGTTGAGGAGGATATGGAG
AAACTCGAGCCCTGGTCAGGTGTGGTGGATCACACCTGTAATTCCAACAC
TTTGGGAAGCTGAGGCAGGCACTTCACTGAACCCAGGAGTTCAAG
AGTAACCTGGGCAACACCGCGAAACCCCATTTCTACAAAAATTCAAAAA
TTAATCACGCTTGGTGGTGGTGGCCGCTATAATCCAATTCTTAGGAGG
CTAAGATGGGAGGATTGGTTGAACCCAGGCAAGGTGGAGGGTGGAGTGAAC
CAAGAAAAAACCGGTGGACCTTTACCCGGGTGACCGAGTGGGACCTACT
TCAAACAAAACCGAACTACTGGGGCCCTATAAACTGGCCGTTTCTTAAA

Table 2

CATAATTTACCCCTTGGT
>Sequence 707
GGTACCCATATCCAAGGCTTATTGCAACTTTTAGTCTTGCCCCTGCTACT
TACACAGTCCAGAATCACTTGGTGAGCATTCCAGTAGGACGGTGGCATT
TAGGATTGAGAAATTAACCTATAAACCTGTCAATTTGATTCTTGATTATT
AATGCTGGATCGCCTGTGGTAGGGGTGTAATCCCAGGAAGGCATTAAAT
ATATTTGAATTAATGTATATTTTGAGAAATAAAGGCTATTTCTAGAAAAAT
ATTACACACTTGTCTTATGTTAAATAAAAAATTTGCTATTTATTGAATATC
CCTTACCCACCCTTCTCCCAATGAAGATCTTATGCATACCTTCACTGGA
AGGTTTAAGATGTGACAATCTTAATAGATCTTTGTGAGACCAGCCATTTTC
TCTGTTTATATTTTGAACCGCCAGAGCAAGGGCCATGCCACCTTTCTCA
TTGTACCTGCCGGGCGGCCGCTCAAAGGG
>Sequence 708
ACATCCTTTTGCATGCTCAAGAGCCCATTCTTTTCATCATTCGGAAGCAA
CAGCGGCAGTCCCCTGCCCAAGTTATCCCACTAGCTGATTGCTATATCAT
TGCTGGAGTGATCTATCAGGCACCAGACTTGGGATCAGTTATAAACTCTA
GAGTGGTAAGTGTCTTACATTTCTTTAAGCACTAAAGAAAACTTTTAATT
AGCTACCTTGCTTCCAGTAATCAAACTAGAGCTCCTCTGCCTTGTGTAAG
TTGCTATAAAGTATTGACTATTAGAATGTCTTGAACCTTTGGTTACTGTGA
GCCAAGTCGGTGCTCAAAGTATATTTTCATAGTCTCAATTATATAGTAATT
TAGGTTCTGAAAAATAGGTTCTGTCTTTGCATATGTAATATTTTGTGAGT
ATTTACTTTGGAAAGTTTGGTCGACCTAATGATAAATTTAGAGTTTATTT
TCCTTTTACAAGCTTACTGCATTGCATGGTATTCAGTCAGCTTTTGATGA
AGCTATGTCATACTGGTCGATATCATCTTTCAAAGGGTATTGGTGGCAC
TTCAAAGATCATGAAGAGCAAGGTAAGTAGAACATCCATACCCTCCTAAA
CACTTTTGGACCTCTGAAAATGAGCTTGTTTTTTAGGAAAAATGGCTGGGG
ACTTTCTAAGGGGTTCACTTTTTTCATGGATGATGCTTTGTTGAACTGAAA
TCATGGAATAGAAGTGAATAATACTTTACATAGGACAT
>Sequence 709
GGTACAAGCATGGTCCATACCACTGTTTACTTTTCTAGAAAAGTTGTTAGA
CTAATTTTCAACAAAAATTCTTTATTGCTTGGTAACAAAAGAAGCATA
CTAAAAATTCTCAATAAGGCACAGTGCTCTAGAAGCTTGAGCATTCAAC
ATAAACTTCTAATTAACACGAACCTTGTGCTCTTATTTAGCCATTGCTGT
GTGGGCTTGGAGCCAGGAGAAAGATGCAGAGGAATTTTACAATGAATTACT
TCCATCAGCTGCAGAAAAATTTTCTAGTTTGGGGAGACAATTACAAACAT
GTTTTAT
>Sequence 710
ACGCGGGCTAATCCCAGTTATGAGGGCTCTGCCCATGACCTCATCACTTC
CCAGAGGCCTTACCATCTAATACCAATACATTGGGTTTAGAATTTAGCA
TGAGAATTTGGGGGAGACAGTCAGACTGTAGCGATGATTCTGGAGTATTC
ATCATTTAAGAGACACTTAAAAATGATCAGAAAGGAGAGGATGAAGGCTA
GAACTAAGACTTTAGCGTTGAACATGGAAAGGAAGTGATGACTGCAGATA
TCTCCAGTACC
>Sequence 711
ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGATAGCCATATACCAAATAA
ATGTTCTGTGACTAGGGGTTATGGCACAATGGGTATTGAGACACTAAAAA
CTCTGCTTCAAGGCTTCCATCCTCTTAATTTTAGAATATCTCTGATTTCTT
AATTTTCTGATTGACATCTTTGGTAGATTATCGTGTTTTTACTTTATGT
TATTGACTGATCCTTTAGAATGATTTTCTTTTTGTTCTGGGAAAAAAAAT
GCATTCTAAATCAGATTCATAATACTTTGATTCACITCCAAGGATT
>Sequence 712
GGTACTTACAAAAATTTTAAACATTAGGAGGTAATTATAAGTAGATTCTG
TGATTAGGACTTCATTATGTATCTTTTGCTACATAAACCTTTGTTAGAT
TAAATGGAAGACACCTGCTAGGTGATACTTTTTATAAACATATGAGTAA
GTCATATATCTTTGTTAAATTTCTGTATGTTCTTTTTGTATAAAGATGG
AGAGAAAGGATGGAGTGATACTAAGGACCCTAATAACATCTCTGTTCAAA

Table 2

TTAATTACTAAGTGATAGAAAGTATTCATATGCCATTAAAGATTTGCCAAT
TCTATTTG
>Sequence 713
ACTGACACAAGGACTCCAGGCCACACATATCTTCTTGAAAGCCCTTTTCC
TGTTTGAAAAAAGATCGTTTGTATTTGATAGAGCAAAAGAAGGCCACAA
AATGAATTGTCTTCTGTGGGCTGTGTTTCAGAACGGCCGGTTGTGGGC
GATGCTGACCTTGAAAGACAGAAATTTTCAGATTTGAAACTCAACGGACC
CCAGGTAATTCTTTGGCTCAAGACCTGGGTGCTTCATTCATATTTCTT
ATTTCCCCAGCCTATAAGAGCATATTTGTGTCTTGTAAGGTGCCTGGC
>Sequence 714
CCCTTAGCGGCCGCCCGGGCAGGTACATATGCACTATTTAGAATATGACA
TTAATCAACCACTAGAATTTAAATCAGGTTATAAATCCTCAAAATCACCA
GAGTATAAATTTAAATGAAAAACCCAGACCACAGAACAAAAACAGAAATA
CCAAAAAATAATCACAAAATATTTAAAAACAGTATATAAACACAGTGACAG
AATTAGGACTAAACATATCTGTAAAACAATAAATGTAAGGGTAATCTCAC
CAATTATGAAAAAGACCTTCAGATCATATTTTAAAACAAATTTAAAAACT
CAAC
>Sequence 715
GGTACGTGTGCTGGATATGCAGGCTTGTTACATAGAATTGGTGTAATAAT
TGAAAACCATGAAAAAATAAAACAATAAAGGATCTAGATGCTAATAATGT
GGTTAGTTAACATGTTGACCATTTCAAAGCAAAATAAGTCTTTGATGTTT
TATACTATTCATAGCAAGA
>Sequence 716
ACAGTGGTGTGATCTTGGCTCATTGCAACCTCCACCTCCTGGATTCAAGC
GATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGCACCTGCCA
CCATGCCCCGTGAATTTTGTATTTTAGTAGAGACAGGGTTTCACCGTG
TTGGCCAGGCTGGTCTTGAACCTCTGACCTCAAGTGATCTGCCTACCTCG
GCCTCTAAAGTGTTGGGATTATGGGCGTGAGCCACCATGCCCACCTCCT
GGGTCAATCTTCTGGATATTACCAGGCATTTTTATGCTGATCTAAGTGAA
AACCTGGATATTTTTTTCTCCAAAGTTATTTCTTAGTTCTACCTATGAC
ATGAGGGTGATCTTTATAATTTTTTTTGTCTTCACTGAAGAAATAAAAC
ATTGCTTAAGGGAGAGTTGGGGGAGTGCATAAGGATCTGCAGTTGGGACT
GGATTTTTCGGGTTTGTTTTACCTACAGCCTGGTTCTGTCCACCTTTCTG
AGGATTTTGTTCGCCCTTTGTTGGTCACCATGAGCATTTCTTATGGGAA
TATTTGTGAAAGAAAAAACACCTTTTTTAAACACCCCAGTTTCATGTTA
TTAACAAGCAGAATTCACCTTAACGGCTGTACCTTGGTCGGGAACACACT
TAGGGC
>Sequence 717
GGTACTAATCTAAATGCTAGACAGTTCAAGTGAGCTTTGGAGACTTACA
GATAGCCAGCTAGAGAACTACCAATGATGATATCCATCACGAGGAGTTTG
GTGGCCAGCCTCCAAGATGGTCCTCAATGATCTTTGCATCTTCATATTC
CACCTGTGTAGTCCCCCTCTCAGGGGATTAGGGTTGGTCTGTATGATC
ACCACATGGCTGCAGTAATGGTATGTCACTTCTGAACTTAGGTTATAAAA
GACTATGACTCTCATCTTGGGTGTCCACTCTCTGTCTCTGTATCTTACA
CTCTAGTGGAAAGCTGCCATATTGTGAACCTCATGGAAGGCCACAGGGTG
AAAAACTGAAGCATCTAATCAACAGTTAGCAAGAAACTGAGGCCTGCCAA
CAACCATGTGAGTGACCCCGAAAGAATTTTCAGTCCCAGTCAAACACT
GAGATAACGGCAACCTCAGCTGACAGCTTACCTGCAACCTGATAAAGACA
CCCTTGGCCCGAACCATAGGAACCATTTCTACCCAAATTCCTGATCTTTA
GGACCTTGTAGATAATAAATATTTGTTAAGCATGGTTAATTTGTGGCA
ATGTGCTATATAACCAATAAATAATACATGGCGGATAGAAAATTTCTTTT
CTTTGGACCAACCGCAAAGTAACCCCTTTTTTCTTTACAGCCAATTTCC
TTTGGCTAAATACTGTACAAAAGAAGTCCCCGAAATATGAAGGATGGGGG
CAGGTTTTGC
>Sequence 718
CCCTTAGCGTGGTTCGGTTTCGGGTATTTGGGGCGGGATAAACATGGCGAC

Table 2

GTCTCTGCATGAGGGACCCACGAACCAGCTGGATCTGCTCATCCGGGCGG
GGAAGCATCAGTTCACAGCAGTAATGCACACTGTGGCAGGAGAATCGCTT
GAACACGACAGGCGGAGGTTGCAGTGTGACGAGATTGCACCATTCACACTC
CAGTCTGGGCGACAAGAGGGGAACTCCATCTGAAAAAAGGAGAAATTCT
TTTATTTTCTACTTCTCTTCAGATTTGTCTTATGCATTTTCCAACATATGT
ATGCATCAGCATTTCTTTTCTGAGTTATAGCTACAGTTTCTCTACTG
TTGTCTTCATGCCATTTTCATTTACATGGT

>Sequence 719

ACTTNNNTTTTATTTTTTTTTTTTTTNGGAGACAGGGTCTCGCTCTATCA
CCTAGACTGGAGTGCCTGGTGCAATCTCGGCTCACTGCAACCTTCACACC
CCAGGCTCAAGTGTCAATCCTCCCGCCTGAGTAGCTGGAACACACAGTGC
GCACCACTAAACCCAGCTGTTAATACACCATTTTTAACCCTAAACATTA
AGAAAAATATAGGAACAGTAAGTAGATTACATTTTGTAACAGACAAGCT
TACAAGTTTTCTCAAAATGAAAGTCATACTAACTGGGAGACTGTTAAC
TTCTTGATGGGGTTAATCTCTAATATGAAGCCACAGTCATAGCTAACTAC
AAATTACATATACAATGCCAAAAATATTCAAAAAATAACATTTTTTGCACC
TTAATGATTACAAATGCTAACCCAGCATAAAGACACTGGAAAGTTTCAGAA
TCTCCTCATCATACTTTCAAAATATCTTCCCTTTACTTTCAATGAAATT
GTACGCGGGATTCTATGGTAATGATGACTTGCCAATGTTCCAGGTGGTTT
CTTAGCTAAACTAGAGAATGCCCTAACTTAGATGGTTTTTTGAAGGCT
ATTACAATATGGTATTTGGTTTGAACCCCTTTAAAGCTTTTTTACCAAT
TTTTCTTTTAAACCCCTTGGGGGGGGGGACCCCAAAAAAAAAAAAAAGGGC
CTTTGTTTTACACCCCTTTTCGGGGGGGGCCCCCCCCCGGGAACCAAC
CCCACAACCGCCCGCC

>Sequence 720

GGTACTTGAAGAACATGGTAAAAATATGTTTACAATAATTTTTATCTTA
GAAATGTATTCAGTAAAAATCTCTTANTTCAACTATCCTCTTGATTCA
GGGGAAAAAAGGATTAGCATGGGAGATAACAGAATAGGAAGTTTAGGAGA
TAATGAGACTTCTGTTTTAGTAAAGTAAATAAGCTTTAATAGTTTTTTGG
TCATGTATTCAAGTTTACCAGCCTTGAAGATATTTGTAGGAAATTTAAAA
GTTTCTCTATTTTCATCCCCCATGATAAAAAATTATAGAAATAAAGCTGA
ATTGAACTTTCTTCACAGCACACTGAAAAATATCTTCTATAGCATTAAATC
AGATCACAGAATGCATATTTAAACAAAAATTTGACTAATTTAATTTTTAT
TTATTTATTTTTTTCTGAGACCGAGTCTGGCTCTGTGCGCCANGCCTGA
GTGCAATGGCNGGATCTCAGCTCATTGCAACNCTNCGCCTCCTGGTTCAA
GCCATTCTTCCCGCCTTGCCCTCTAAAGTGCTTGGATTGCAAGCCTTTTG
CAACCTGCCTGGCCCCAGAAAAACTGGTTTTTTGAATGTTGGGTTGTTGG
GGGTTTTTTTTTCCCTAAAGCTTAAAAATTTCCCTTTGGTTTTTTTTCA
AAAAAAAAAAAAAATTACCCTTTTTTTTTTACCCTCCCTTTTTTTTTTA
AAGGGGAAAAAATTTCCCCCAAAAAAATAAAGGGGTTTTATTTGTTGT
GGAAG

>Sequence 721

ACCCTTGAGCGGCCCGCCGGGCATGTACGCGGGGTTAACTATGTTTTCTT
TAACAGAAAGTTCTGTTTTTGTGATCCTTTTAAAAATAAAGCTTCACGGA
AGGATGAGAATAGTATTTTCAACTTTAAATTTCTCATTACCAGAAGACC
ATGTGGTAATTCTCTGTATACAGTTAGAACAGCACGGAACTTGAAGGCC
TAAAAAATTAGCTGACCTTGTTAAAAATGTTGGCGTGAGCAGTATATTAT
TACCTATCTTTTTTATTGTGTGTGTGTGTGTGTGTGTTTTAACTAATT
GGCTGAAATATCTGCCTGTTTCCCTCTTACATTTTCTGTTTCTTTCC
TTATTTATCTTTGTCCATCTTGAGATCTACTGTAAAGTGAATTTTTAAT
GAAAACAAGTCCAAGTTTTACTCTCAGTGGGTTTGGGACATCAGATGTAA
TTGAGAGGCCAACAGGGTAAGTCTTCATGTCAGTGTGTTGTTGAGGAACGA
GCCTATGATGTCAGTTTTTCCCAAAGGGAACAAGGACAGAAGGGATTGT
TCATTTTACATCTCGGTTCTGTAATACCACCTTTGACTTCATGGTTGAT
CAGAATTTGAAGTCTAAACCGAACGTAAGCACTTGGGGGTATCGAATTTT
AATACCTACCACAGTTAGGACAAATTTTTTTTCAAAGGGCCATTATTTTTT

Table 2

TGGGGCAACCCTGGGGGGGGGGGGGGCCTTTTTTTGGAAAACTTTGGGGG
ATATATTCTTTTTTTTCCCCCCCCCTTTATAAAAAA

>Sequence 722

CCCTTAGCGTTTTTCGCGGCCGAGGTACATGAACCTATTAATAAACCATTC
ATGCTTCCCAGTTTTGGCAGATGTGAGCAAATATGTATAGGAATTCCAAA
GGTAACTTTTTCCCTTTCATTACTTTACAGAAATACTGTCAAGTCCAATAG
AGAGCACAGACTTGGGAGGCGGATTGGGTGGGTTTGAATCTCTGCTCTGC
CACTTTTATTAATCATGTGAGTTGAGTATGTGACTTAATCTCTTTAGCT
CAATTTCCCCATCTGTAAAAATAGGAATAATAAAAAATACTGACTTCAGAGA
GGTTTGTGAGGATCAATTAGACAGTCATGTTAAGCTGTAAATTGTTTCT
GTAATGGGCAAGATAGCAAATATTTTAGATTTTGTGGACCATGCAGTCTT
TATCATAAAGTCTTAACTGCCATTATAGTGAGAAAGCAGCCACAGACAAT
ATGTAAATGAAAAAGTGTGTCTCTGTTCCAATAAACTTTATTTTCAAAA
ACCAGCTGGCTTGTACATCTGGCCTATGGGCCATAGTTTGGCCATCTCT
AATGTAAAGAAAGGACTTTAGCCCAAAGCCACAACCTTGCATAGTAATGCC
TTAAAAATGTTAACATCTTTACTGTTATTAATATTACTACTGCATCTAT
TACAGTAGCAATTGAGTAATGAATACATGAATGTTATAATGGTAAATTAC
TAACCTTTTAAAAATATTAAGCATTGGCATATTTTAATACTTTAAATCTT
TTAGGAAGATAGTTACCCTGCAT

>Sequence 723

GGTACTTACTTTGTGCTCTTTTTCTAAGTTTTAAAGATGGATGCCAATC
TCAGGCTTCTTTTCGTGTGTGTATGTGCGTATGTCCATAAATTCTCTTCT
AATTACAGTGTAAGCCACATCCCAAGTTTGTATAGTCACAGAACTGTA
TCGTACACATATTTTTAAATTCAGTAAGTTCTTCACTGATCCCTGTGTA
ATTTAGAAATGTTTCATAATTTCCCTACATTGGAGGGGAAGATAGTTTG
TTTTTATTATTAATTTCTAGCTGTATTGAGCTCTTGTACAGAGAATATGGT
TTATTTTAGTCGCTTGAATTTAAGATCTGCTTAATGGCAAAATGGATGG
TCAGGTTTTTGTAAATGGTTGCCAGTAAGCTTGCAGAAACATATGTACCTGC
CCGGGCGGCGGATTGAAAGGGCTATTTCCCA

>Sequence 724

CCCTTTGAGCGGCCGTTCTGGCAGGTACTCCTCAGCTTGTGCTGCCCTT
CTCGAATGACTCGCGTTTCTGCTTTCATCACTACACCTCCCACCGCTCT
CCATCACCTGCTCTGCTCTTATAAGGATCCAGAGAAATGGAATAATCTTA
TTGCTGATCTATGTAAACAAGTTGAAGAATCGTCTGAAAGAAAATACAGT
GTGTCTAAACTGGAAGTCTGTAAATAGTTTGTTCATGAGCATTGTCAC
AGTGGAGTTACTGTTTCATCATGGGGGTACC

>Sequence 725

GGTACTAACTATTCCTAAATATTAACACTGGTCAACTAAAAATGCACAAA
TTCATGAATTGGATTGCACTCAAAACAAAAAATACCATAGGCAGTAT
CATTTCTACCTTTGTAAGAGGCAGGAATATTCATTAGACTCTATGCTTGA
CTTTTCATATGTATTTTAACACTGTAGTAGGCTATCGGGTCTAGTTAAG
CTTCATTTCTAAACTACTCAACAGCTCAGAACTGACAAAGATCACAAGAA
ATCAACTATTAACCTCTTGCTGAAGACACAAATGAAATATTCCCTATTT
TACAAAGCAAATTAGATTCCAAGATTTTCCAAAGCCATACTCCTGCAGTT
CACTTGGGTTCAAACTTAAAAATCATAATAGTAATATACACATATTTACAT
TATAACCCATTACACATTATTTTCAACTCAATGCAAGTCAAAACAAAGGTT
TCACAAAATAACCTTACTATGTGCAATACACTGGTATTTTCTATTCTACT
CAGAATTTTTTAAATACCTATCATGAACCATTAAATTTGCTTACCACTAA
TGGAGTGACAATACCCAGATTGAAAACTGGATTAAAGAAGTAGTTTTTAA
ACCCATAATGGTTATTTGGCATTACTTAGGCAAAAAATATTTCTCGCTTT
ATAAATTCCTTACCTTTTTAAGCAAAACCTTTTTTAAACCAATTAATAATTT
TAATGAAGGGCCATTTGACCGGTNAATATTTATTAGGGGTAAAAAAACCC
AAAAATTGGCCTAAAAAACCTTCAACACATTCCATAATGGAAGAATGTGGC
GAAATAAATGTAAA

>Sequence 726

ACTCACTTAAATAAATAATTGGTAAGATGATTTTATCTGACAATTAAAAA

Table 2

AAGGTATATGTGAAAAACCTTAAAAAAATCTATTTTCATTACATGTTGAA
ATGTTCTGTGCTTAATCCAATACATCATTTAAATTCCTTTACATTTGGA
CAACAGAAAACTGAAATCTATGGATTCCAAGCTGCAAAGTATTTATCT
AAATNGCAAATCAAAAAACATCTATAACATCTTGTGGGGATACAAAAGT
CTCCTGGCTGATTCTCATGCTACAGAAAGCCGAGTTTCTGTTCTGTA
TTGTGACAAGTGCCCGCTACCTTGCCCGGAACACGCTAAGGG

>Sequence 727

ACATTCTATTGTTATCTCTATTTTTTGGATGAAAAAACAGCAGCACAAAG
AAGTTCAGTAAGTGGCCTAAGGCCACACAGCTTGTCTTCCTGAAGACTGG
ACCCAAACCCAGGCAGTCATAGAACATGCTGGTCGCTATTGGGCCGCTTG
CTCTATGGGGGACGGTGCTCCAGGAACACAGCAATGCGGTTTAGGATTCC
AGGACCTGGGGCAGCTGCTGCTTCTTTCTTAGTTCTCGACAGACCACTGA
GTGCAGTTTTTCTAAATCTTTTCCCACTTTGATATGTGGTCCATAAAAC
TGCTTCCACACGTATAACCCACTGTGAAGTTTAAATGATTTTCATGTTG
GGCAAATTCCTACTGAATGTTAAGCTAGATAGGAAACAAGTTCTGACTAA
CACAAATGAAGGTCTGAATGAAGAAGTCTTACTTTTATAAAGGAATTTTC
CCCTCCTCACCAATCCAAGTTTAAATGTTGATATCTCTGTTGCAAAGG
ATGATAAATAAATGGGTCCCTTGGTTAGTAGTGGGTGTATGGGTGTGGGT
AATAAGGTATTGAATGTACATTTAATACTCCTTCTCATTCTATACTGGAT
CTATCTTGGAATGATGCATTTTTCATGTTTAAATCACTTCCTAATCCG
ATATTTTGTCTCTTAACTATTATAATTTCTTGCGTTATATAAATTATA
TATTACTTAATCGCTTGCTTCTTCACTCTACTATTTTATCATCAACAT
ACTATTCGGTCTTCTGCTCTTACAACATGTAATTATTTCTCTACTGCTC
GCTACACGACTGAACCTTAACCAATATATCACTGTCTAGAACTTCCAGCT
TATCA

>Sequence 728

GGTACTTTNTTTTTTTTTTTTTTTTTTTTTTGGTAGAGACGGGACCTCACT
GTGTTGCCAGACTGGTCACAACTTTTGGGCTCAAGCAATACTCCTGCC
TTGGCCTCCCAAAGTCTGGGATTACAGGGATAAGCCACTGTATAGAGTA
TGAAAAGTATTTAAAGAATCTTCCAAAGGAGGACAGCAGAAATGAAAAT
AAAGTAAAGTTCAACTAGAATCCTTGACACAAGTGGTTTTATTCCCAATG
CCTCTTAAAAAGAAATCGTTCATGGGTGGCAGGAGGGGTGTTTTATGGT
GTGATGCACCGTGACTTGTTATTCAAGATGTAGTCCAGTGTTCCATCTAT
CACGTTTTATACCTTTCGAAAAAAGGAAACCGAAACCACAAACCACAA
CAAAAATTATTCCAATTAATGGGATTACAGCAACCTGGATGGGACTGGA
GACTATATTCTAAGGGAAGTAACCTAAGAATGGAAAACCAACATAATGT
CTCGCTCCTTAGTGCAGCACTTATGAAGATTCCAAAGGCCTAAAAATTG
ACACAATGGACTTTCGGGAACCTCGGGGAAAAAGGGGGGGGAGAGGGATT
AAAGATAAAAAACATCCTAAGTGGGTTACGGTACCCTGCCCGGGCCGC
CCGTTCTAAAGGGGAAATTTAGACAACCTTTGGCGGCGCGTACTTATGGA
ACCCAGCTTGGTACCACAGCTGTGGTGTAAATCATGAGCATAACCTGTTT
CTCTGGTAGAAATATTAATCCGTCTACAATTCTCCACAAAATTTAGATC
CGAAGCTTAAAGGTAACCCCTGGGGGCCCTAAGAGAGAGCCAAATCCG

>Sequence 729

CCCTTTCGTTCTGCCGCCCGGGCAGGTAATTATCAGGATGAAATCAGAAT
CACAGTTGGCCTTTTGCCATAAGGGAAGGGTATTTGGAGAAGAGTCAACC
ACCACTCATGCCTCTCCCTGCCAGCAGCACCTTGGATTTTCTGGCTT
TATGCCTCCTGTTCCCTGGCTGAGTAAGTGCAGGCATTAGGTTCTCT
ACACACGATATATTACAGGGAATGGCAGCGATGGTCTGGAAGGGCAACA
CTGGCCTTCTTTCCTCCTGAGCACTAAATCCTAAACATGCAACTTAAAA
AAAAATTCTAAATGTGAACACCACCTTCAATAATTTATATTAATGTATC
ATCCACCCCTTTTCTCTCTTTCAACGCCCTTCTTTCTACCCAACT
CCAATATACCAATTTGTTTGAACAGTTTACATTCTAAGTGTCCAATAT
TGCTAAAGGAATGGATAAATGTTGTACCTCGGCCGACACGCTTAGG
G

>Sequence 730

ACTTACTTAAATAAATAATTTGGTAAGATGATTTTATCTGACAATTAATAAA
AAGGTATATGTGAAAAACCTTAAAAAAAATCTATTTACATGTTGAA
ATGTTCTGTGCTTAATCCAATACATCATTTAAAAATCTTTTCACATTTGGA
CAACAGAAAACTGAAATCTATGGATTCCAAGCTGCAAAGTATTTTATCT
AAATTGCAAAATCAAAAAACATCTATAACATCTTGTGGGGATACAAAGTT
CTCTGGCTGATTCTCATGCTACAGAAAGCCCGAGTTTCTGTTCTGTAA
TTGGGACAAGTGCCCGCTACC

>Sequence 731

ACTTTTCTGAAGAATACATCTTCGTTCAATGTGGTCGATTCTTAATTTT
TTCTATAATATGCTTGTAACTTTAGAGTTATGGTTTCATTTTGGACT
ATTAATTTGAAATGTTTGACATCAGCAGTTGACTCTTCTGTGTAGATCA
TAATTTTTTAATTAGAAGACACTCTCAAGTGTGAACTATAAATGTAGA
GTAAATTTCTAAGTGGAGGATATCGTAAATCTTTTGTCTTGGTATGA
CATGTAAATGTTAACATATGTGAATAATTCAGTCCACGATTGTACAGGT
TCTATGCTTTACCTCCTTTCAAATACTTTCTTTAACAAATACTTTGAC
AAATTTATTAACATTTATAAGACAAGACTTACCAAGTTGTGTTCTGTTTAT
GATTTCTTTAAATGTTTTCCAATACTTAGATACATCAAAATTATAGGACTT
CTCAATTCCTCTATTGTTACAGATAATAAATTAATCAGAATAGGAAG
ACCTTAAAGATCTTTCTCATGAGTTACAGTTTCCAGATAATAATTAC
AGAAATTTCAATTTGTACCTTGCCCGCAGACCAGCTA

>Sequence 732

GGTACTTTTTCTTTCTTTTTTTTTTTTTTTTTTGGAGATGGAGTCTCGCTGT
GTTGCCAGGCCGAGTGCAGTGGCACAATCTCGGTCACTGCAAACTCGG
CCTCTGGGTTTCATGCCATTCTGCCTCAGCTCCCAAGTAGCTGGGACTA
CAGGTGCCCCGCCACCAAGCCCAGCTAATTTTTTTCTTTTTTGTATTTT
TAGTAGATACGGGGTTTACCATGTTAGCCAGGATGGTCTTGATCTCCTG
ACCTCGTGATCTGCCTGCCTCGGCCCTCCCAAAGTGCTGGGATTACAGGCG
TGAGCCACCAACCCAGCCTATCTCTTTACTTTCTTAAACTTTCTTTTAC
TTTACTCTATGGACTCACCTGAAATCTTCTGCTCAAGATCCAAGAATC
CCTTTTTTGAGGTCTGGATCGGGACCCCTTCTGTAACACGACTGTATC
CCCTTGGCAGACATATGAATCTGCACCCCCGCTTGGTCTCCAATATCCAG
GGATGAACAAGGGAGGAAACCAGGGAAAAATGCTTACTGAGGCATCTTTTA
TGAGCAGTACCATGCTAGGCTCTTTACTAACATTGCTTTTTGCACTGTT
CACAACAAGTCTGGATATCTTCAATTAGAAATGTGAAAACCTGAATTCCC
GATGAAAAGCCCCCACTGCTTTTTGACTGGCGTGGCTTATACGGGCTTTT
GACCAAGATGGACTGAATGCCATCTTGTGTCAGAGGGACTTAGACATTG
AGGGAAGTT

>Sequence 733

GGTACAAAACTATGTGAGAACGTATACTACTTCTCGGCCACAACACTACTAT
TTTTAGATATTCATAAAATAACCTCTGATTGTGTTTTACATTGACCCAT
TCAGTTCTGTCCAATCTTATAATTCTGATTAAATGTTCTGGGCTCAAAA
CTAATTTTTTAAAGGCCACTAACTCCAAATCTAGGAACAAAAACACTCTGT
AAGACTACTGTAACCTGTATAAAATTAACCTGAAAAATTAACCTCACTCCA
ATAAACTATGATTATGTAGCTCATAAGAGGGGTGAATTTTGAATATTTA
CTCTATGAAAAGCCTTAAGCAATTCAATAAAAACTTGATAACTGCACGTT
TAGTTTGCAGCATCTTGT

>Sequence 734

CCTTTCGTGTGGACGCCCTTTTCAAGGTACTTTCTCTGAATTTCAATTAGCTA
CATTAATAAAAGAAAAAGATCAAATGCAATAGATAGCACTGTAATAGATTT
TGCTACATATAAAAAAATCCATTTGAATACACAGTGAAGTAAAAACACCAG
AGTGGCTAAAAAGTCCCTTCATGCATATTTACTTAGCAGAGAGCTCTTGA
GAAAGACCCAACCAATAAACCCCAACCAAGCAAAATCCAGCTACTTCTCT
AGCTGAGAGGGTGAATGACTCCAAAATATTGTTTCAAGCTCAAAAAGCC
TAAACAACTCCACATAAAAANAACAAAAATCTATCTAATTGGACATTTAC
CTTTTGGAAATAAAAGGCCAGTGGGAAAAAAAAAAAAAAAAAAAAAAAAAAAA
GTTACC

Table 2

>Sequence 735

ACTTTTTTTTTTTTTTTTTTTTGTACAGACACAGGCTGGGAATTTCC
CAAATCTTACAAGTTCTCGTCCCCTTTCCCTTAACAACCTTTTCGGAGTA
TCTCCGTCCTTTACACTTTATTGTAAGCGAGGAGAGCAGCCAGGCTGCA
CCTTTAACATTTCAATTCACAGGATCTCAGCTCAGCCAAGTCTCAGCCAT
TTTGTAAAGGATCACTTTCTCCGGTTCCCGTGACCTGTCCCTCGCC
TCCTCTAAGCCTCAGCAGAAAGGCTTCAACATCCACTTTCCACAACAT
TCTGTCTATGATACCTGCATTCTCTGAGATGCTAGAAGCTTTCTCTCCAG
CTCTCCCCTTTCTCTCTGAGCCTTACCCGAGTCCCCATTGATGTCCGT
ATTTTTACCAACAAGCTCTTACCGCTATGGAGGCTTTCTCCAGCAGGTC
CCTGAAAACGTCTGCAGCATGTACGCGGGGAAGCTCTGTTTGGTGCTTTG
GATCCATTTCCATCGGGCCTTACAGCCCGTGGTAGACTCCAGCAGCCAA
GAATGGTGAACACTAACGAGAGACAGATTGGTTTTTAAGAAACCCTTGG
ACGCCCTTGACAGGGATAAACCTGGAGTTAGTTGACTTTTACCCCCGGGGG
TGGGGCCTCGGAAAAAGAACAAGCCCTTTTTTCATTTCCCTTCTTGAAAA
GATTTCCAACGGGATTTCTCTGAATAAATGTGGATGACTGCCCGGATGT
TGCTTCAAAGGGGAAAAA

>Sequence 736

ACTTGCTGCTTCAATAAAATTTGTCTTTGATTCTACTGGTGGAAGGGTG
CTTGATCCAGCTTTTGCTTCTCCATGAGGAGGACTCTGTTTTTCAGTTTC
CGCTTTTATTTCTCTGAGGGGAAAAAAGAAGCATACATTATAAAACT
GGACAGCAGAAAGACTGAGTAATTTCTTAAGTTCTATAAACTCATTTGGA
ACTTCTACAAAAAGTTGGAAGAAATGCAAAATTAATAAAAAATTAGATGCT
AAAATTGTTTCATCTAAATTTTTTAATTCACACAAATAACATAAAACTAT
ATGAATAGGTACC

>Sequence 737

GGTACTTNNTTTTTTTTTTTTTTTTTTTTGTTTTGAAAACCCCTTTATTC
GGTTTCTCAGTAACAGTGATGCATTAAGAAATCTTGTCTGCTAAACTTC
ATAGCAAACCGATCCCAGTCTCACCCTATTGTGTGGTAGCCAGCAGCA
GAGAAGATAGGAATTTTCTGCCCCCTAGCAATACTGTTTCATCCCATCGAT
GGCCGAAATGCCAGTCTGAATCATTTCTCTGGGTAGATTCCACATTGAG
GGTTGATTGGCTGACCTAATGTATTTCCAAAAAGGAAAAATTTCAACAAGT
TGCCGCATTATTCATGAATGAAATTAGATATCATATCAAATTAAGAAAA
AGAAAAAGCACCAGAAAGACCAGAACTACATAAAGCATCTCTTTACTACAA
AAAAAATCAGTTATTTTCAAATATGAACTTGAAATAAATTGTTTCCTTT
ACTCTTTTGGAGACTCACAAAACATTGGGTAATAGAATTCAAGTTCCTTA
AGTGAAGATAAAGATATAGCAAATATGAAAGAAAGCCTAATTTCAAATTC
ATGGTGTACCATATACATTTTCAGAAATATTCCAGATATTTTACACGATC
TTAAGATATTAATACCTAAAAATTTACGATAATTTCTAAGAAAAATCTTAT
TTAAGTATAAAATAATTTATTACCTATGGGACGTGTGGCCTATTAACTTT
AAGGGAATCACAAAAAACACTTTTTATTTGGCAAAGGACCTTGCCCGGGG
GGCCGTTAAAAAGGGCG

>Sequence 738

GGTACTATCTGCTCTGAATTAATAATTTAGAACAATAACCTGCCGTGC
CACTACACATGGACATAATCAACTGCTAAATTATGATTTGTTTTCTTCCA
GTTACTTTTCCAATTATTTTACATATACAAATATTTTCTTGGTAGAAGA
ACAAAAGTGGCACTATTCATTGTGTAGTTTTTTGTAACTTATATTTTAC
CCTAAGCATTTTCTCGTTGTCTTAAATTATTAATTGAAAAATTATTCATGG
CTAAATAATGCCTAGGCTGCCATGAGTCTTTTCTCCTTCTATAAACCGTG
TCAGCATTCTTTTATATATCTTTTCAGCACATCTGCAATGATTTCTTTG
GAATAAATTTCTAAAGTTCTGCTGGATCGAAAAGATTTCAGGGATTTTATG
GTTCTTTCAATTTGGCAAAGTATTTTTCAGAAACAAGCCCATTTTCAGTTC
TGAATAAACAAATTTCTTTTATGTTGCAATTTAAATCTACCTCCTTGTA
GCATATGCAGGGAAAAATGAATTATTTGGTCAACATGCTTTCAAATACTTG
AAGAATGTCTATTTTCTTTATGACTATTCTGTGTTCTGGACTATACCAT
TATTTTCCCATGATTTACATTGGAAGGTGGTGATTCAAGCTCAATGCATT

Table 2

AATTGCTTCTCCGAGGTTTTTAATAATAGATGAAGTGGTTAGCTTCTAAA
TAAAGGATATTGTAGGTGGAATGTATAATATGGCCTAAGCCCGACAACCTT
CCCTTGGTTTGT

>Sequence 739

CCCTTAGCGGCCGCCCGGGCAGGTACACAGTTTCCTTCTTCGAAACAATC
CAGAAGTAGGCTAGCAATGGTCACCCCTACATACTTCCGCACACATCTTT
AAGAACAGGACACCATTACCACACCCAAGAAAACCAGCATTTAATGAATT
TATTCAAGAGTATCATCCAACATACTCAAATATCCACAGCTGTTCCGAAA
GTATCCTTCAATTCTGGATCCATTGATGGTTCACAGGTTGTATTTGGCTG
TTACATCTTTTTAGTTGTTATCCTTCAGAGTAAAACTGGCCTGCCCTCT
TTCTTTCTTTACAATATTGACTCCTTTGAGGAACCGGGGCTGGATGTGGA
GCATTCTCCATTCTGATTGTTTCCATGTGACCAGATTCCGGGTCACAA
ATTTCTGGCAAGAACCCTTCACAGATGACCATGTATTGGTTATTAGGTAA
CAATAGATTACTCAAGTAGAGAACTGGGAAATTGTCCTTTGTCCATTACA
ATAAATTTTTTTGAAATCTAGAATTCCTTATGATTCATTGATTTCTTTT
CTTTTTCTTTTCTTTTTTTTTTTTTGAAAACAGTTTCACTTCGTTCCCC
CGGCTGGAGTGCCATGGCACAATCTCGGTTAACTGGAGCCTTTACCCTCT
GGGTTCAAAAGATTCTCCTTGTTCAACCTCCTGAATAGCTGGAATATAGG
GCCTGGCACCTTGCCCGCTGATTTTTTTATTTTAGTAAAAATAGGGTTAC
CAATGTGGCCAGCTGGGTTGAACCTTTTGAC

>Sequence 740

ACATTGTCTGCATTTTGAGATTTTCTATTATCTTTCTGGTGTTGATTTC
TGTTTAATTATACTGTGATCTACAAGCAACACTGTATTATTCCATTCTT
TTAAATTTGTTAAGGTGTGTTTTATGCTCAGAATGTGGAGTGGAATTT
TGGTGAGTGTTCCATATGGACTTAGAAGAAATGTGTTTTCTGCTGTGTGTA
AATGAAGTAGTCTATGTATGTCAATTATTGTTTGATGATTGATGGTGTTG
AAATCAGTTATGTCCTCACTGATTTTCTGCCTGCTGGATATGTCCATTTC
CAATAAAGGTGTGTTAATCTCTATCTATAATAGTGGATTTATCTATTTCT
CCCTGCAGTTCTATCAGGTTTTGCCTCATGTAGTTTGATGTTCTGTAAA
TGCATACACATTAAGGACTGTAAAGTATTCTTGGGGAATTGACCC

>Sequence 741

ACTTCAGGTTAGAGATGACTTCAATATATGTGCGACACCTCCCAAGGTGA
GCATCACACAGCACTTATCATAATCACGAAGCAGCTCCACAGAGGCTAAG
ATGAAAACAAAAATCTCAGGAAATTTATGTTTATAAAAAATGATACTTGCA
AAAAATGAATGGAACCATCTCCATTGCTTATTTAGAGTGTTGACTCACT
GAATAAGATTTTAAATTAGTCAATAGTATTGGATGCCTCTATATCTGCAT
ATCAATAGGCTCATAAACAAGGTTGCTCAAAGAACTGCCATCAACCACT
TGGTTTCATCTCTGGACACCACACTGTTATCTTCTTGGCCTCTGTCCA
TAACGGGTCCAGGCTACGTGCACCAAAGGAAAAGAAATTGGGTCCTTCTCC
CCTCACCTGGTTTGGATAGGAGGGCCAGAAAGAAGTCAGGACAGACCAT
GTGTGACTGTCCCTAACCCAAAGCAAGCTACCGTGCAGAACCCAAACCCCA
GGACAATAATCCCAGCCATGCCGGAACATGGGTTAGCTTGACCAGCACTC
ATTACAACGATCCCAGCCTTTGTTTAAAGGTGCCAAAATTAGTTTCAAAG
CAATGTCTAACCTTCCCCACCTTTAACAGGAAAGAACATTTTGAATAATT
ACCAAAAGAAGTCCATGGACCTTAGAACTGACCAAAAAAGCTTTATCCTC
TAAACT

>Sequence 742

GGTACAGGTTTCCCTTGCCCTCAACTTCTCATCCTGGGTGATGAGACTGTT
ACTTTCTTCTTGATAAAGAGGGCAACTTTCATGTAGAAATTTTACCTC
CTACTTTTAAGAAAAAGGAAAATCAGAGTGCTTTAAGGAAAAATCAGAGT
GCTTTTCTTGATCTGCTATTTTCAAGTGCTTTAACTCAAAAAAATCA
ATATGCCAAAGTGGCATGTTTGGGGGTATCTGGTCTGAATTCCTTCAGG
AAAGATAGAAAGCAAAAGCAAAATAATAGGTTTAAAACTAAAAATATCCA
GGTGCGGTGGCTACGCCTATAATCCCAGCACCTTGGGAGACTGAGGTGG
GCAGATCATGAGGTACAGGAGTTGAGACCAGCCTGGCCAACATAGTGAAA
CCCTGTCTCTACTAAAAATACAAAAATTAGCCAGACATGGTGGCGGGCAC

Table 2

CTGTAATGCCAGCTACTCAAAAAAGGCTGAGGCAGGAAAATGGGTTGAACC
CCAGAAGCAGAGGGTGCAATGAACCCAAAACATCGCATTGACTTCAGCCT
TGGCAACAGAACCCGACTCTGTTTCAAAAAAAGGAAAAAAGGAAAAAA
AAGTCCCTGCCCGGCGGCCGT

>Sequence 743

ACTCCTCCTTGGCAGCATCAATCAGGCAGGGCTCAGCCCACACCCGGCTC
CTAAAGACAAGAGAGCAGAGAAAGCAGAATGGTGTAGAGACCATCGCA
GTGACCTGATCCTGAAAGCACCTGTAGGAAATGGCCTCCGCCAAGTGAA
TGTGACAATGCAGTCAGCCACAGTGACGGAGTGCAAGATCGGATCACCAC
ACAGATCCAAGAGACCGCTCACCACACCTGAGAAACAAGAACCCAAGACA
GCCTCATGGAGGTGGAACCGTGCTACGCAGTTATGGCTTCACTACTGAAT
GCGATCTTGCANAAGT

>Sequence 744

GGTACGCGGGTGTTTTTTTTTGGGTAATTTCTTGAGTTAGAAATGTAGT
TAGAACTGTGACTAACGGCATTGCCTGGAATGTGCTACAAACACGATTAG
ATATTCATTTATCTTCTCGTATTAGACTGCTTGTATAGAGACTCAGTGT
TTAGACATTCATTTCTCTTCTTGTATAAGACTCCTTGTATAAGACTCGG
TGTTTCATTTATCTTTTTAAATTAACCACAACAAATATATGAGTTTTAA
CCATTGCAATGTGCAATAAATAAATATATCTGAAGTAGCATTAGCCTTCT
AGTTTTAAATAATAA

>Sequence 745

GGTACCTTTTTTTTTTTTTTTTTTTCGTCAAAGTCACTATTTGGGCCC
TAACATAATNCCTGCTCAGAGCGACGGAAAAAAGGCAAGCCTTTTCAAAC
ATAACTCTCTCTACAAGCCAGCTATTATGGCAAGGGAAAAAGAAAGCAT
CTAGATAAATATCTATCAAAATTAACCTTAAAGAGAAATACTCTCTTCTCCT
TAAAAGCCCTTATTTTTTAAGACACTAGAAAATAAGTTACTATAAAAAGT
GGTGGTCTGGGGGCTAAAAACAAAACAAAAAAATCCTCTTTTCTACATT
TTTTAGTTTTCTG

>Sequence 746

GGTACTTTTTTTTTTTTTTTTTTATAGTTAAATGCTTTACCTCAATGG
TTGAGATATTTGAATGGATTTTCAAGGGGGGAAATGCTTATTATAAT
AATAAACCAAAATACTTAACAGAAAAATTGTCAGCTATTCTGACAAAAATA
AACATTTTGAGAGACTTTATTTCTTTGTCCGTTTCTGTGGTATCACTCA
TTGTCGTTAAGTAAGTAAAGCTTTTATATTTAGGTAAGAACTGATTTTA
TTTTTTAAATTATATTTATTTATTAGCACAGAAGAAATAGAGAGCC
ACATTTTAGTTCAACTT

>Sequence 747

ACTCTTTTGTATTAGGTATTTCCCTCCTGCTGTGTCCAGGATTGCTGTGTG
GTGGTGATGAGTGCTGGGAGGTGAAAAATTAATAAGCCATTTACCAGT
CAGCATCCCAATTAAATATTTGATGTAAGTGTGATCTTTGAGCCAGGCTT
ATATATTCATTTTCAAGCAGAGGAGTCCCCATTTAAATAGAGGCATTG
TCTGATGTGTTTATGGTTAACTGCATCTGGCTTGGGTCTTTCTGTTTCC
TTTCTTTGCTGAATTAGAAGGGGTACTCTGAAGAGTCCAGGTCTTACAG
TGTGGTTT

>Sequence 748

CCCTTGAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTCAATCAAGAAAGATAATTTTACACTTATTCTTTGAAAGA
AAAATTCATATGGAATTTTCTTCTTAATTAATTTCCAAAATACATTCTC
TCAACCCTATGCCCTCATACTAGTAAGTTGATGGTTAGCGGGTAAGTAGG
TAGTAGTAAAAGAGCAAAAGGGGAAATTTGAGCAAAAAAGGGAGAAA
AAGAAAAAAGGGACCTTCTAGTTTCTTAATAGAAAAGCTAGAGAATTC
CATTCCTGAAAATTAAGATATTT

>Sequence 749

ACCACTACTACATTACAAAATAGTCTCTAACATAAAATGCCTTAATAA
CTATACTATTATAGAATCTGATAAACCTTACATTATTAATTTGATTATAA
AATCTTCTGGAAAACTTTGGTATGTATCTTCAGAAGGTTTTTTAAAAA

Table 2

TAATATTTTAAGGGCTGTAAACATTCCATTCTATTAAAGCACAGCAGAA
TAAGTAATGGATATTCAACTGCATACAGAATATAGAATCAAAAAACAAT
TTATTATGTTATTTGTAGAAAAATCATTACCAGAGTAAGCAAAAAA
>Sequence 750
GGTACATTTGATTGTGGCATATTCAACTATGATTTTAGACAAGATGTGTG
TGTGTGTGTGTGTGTGTGTGTAGACAAAATAAAATTCAGAAAGAGAAAATCT
ATTCTACAATGAAATTCATCTCTTACTTAGCTATTTTGAAATTGTGTCC
CAATACCACATTAACAGAGCCAAAATGAAATTTAAAATTATGGTTATACT
ATTATTCACACTAGGTAGGGTCAGGTTTTTTTGTCTGAATTAAATGGCTC
CTTTACGCTAGCTACTTAGGAACCACTTCCCATACCCCTCAAGCTAGAGTA
ATA
>Sequence 751
GGTACATTTGATTGTGGCATATTCAACTATGATTTTAGACAAGATGTGTG
TGTGTGTGTGTGTGTGTGTGTAGACAAAATAAAATTCAGAAAGAGAAAATCT
ATTCTACAATGAAATTCATCTCTTACTTAGCTATTTTGAAATTGTGTCC
CAATACCACATTAACAGAGCCAAAATGAAATTTAAAATTATGGTTATACT
ATTATTCACACTAGGTAGGGTCAGGTTTTTTTGTCTGAATTAAATGGCTC
CTTTACGCTAGCTACTTAGGAACCACTTCCCATACCCCTCAAGCTAGAGTA
ATAGATACCTGACCC
>Sequence 752
GGTACTTTTTTTTTTTTTTTTTTTTTTTGGGAGCCATGGCAATCTTTT
ACACTTGATTTTAGCCAAAAGGCCAAGAAGCAATGAAAGCCATGATAATC
TTTTATGCAATGTTATCAGGTAAAAAAATGGCTAAAGTATATTAGCATT
TACCCGAGTGGTATTCTTTTATAGAACTCAGCTACTAAAACCAGGGAGAG
TACTTGGTGTATTCTGAAACACTCTGCGAAGTTGTGGATAGCTTCTGGT
GGTAAGGATGGTATTGAACACGTTTACGTCTGTCCCCTTTCTCCTTCTC
CTGCTTCATACAAGG
>Sequence 753
GGTACTTTTTTTTTTTTTTTTTTTTTTTGGTATTATATAAAATAATAA
TGCATCTTACAGGGGAAGTCATAAATCCAATGAAATAAAGTATTTACCTG
ACATATTTTCCCATCTTCTTATTCAACCATTTGACTGGTTGTCCAGCC
CCAAATTGTTGGACTTTTTTAAACAATTCACACTGACTGGCAGTCTTCAC
CTTTAAATAGTTGAGTTCATCCCTTTAAATCATTTAAAAACATGATTT
TTAAATTTATCTCCATTACCTTATTTGTGTTTACTTTTTACTTTTATT
TATTTCTC
>Sequence 754
GGTACTTTTTTTTTTTTTTTTTTTGGTGGGGAGCTGTATTTATTTCCAGG
GCTGTCAAAACAAATATCCATAAATGGGTGGATTAGAACAACAAAAATT
TATTCTCTCTAGAGAAGAAGCTTTTCTTGCCATTCCCTGGCTGCTGGTCA
TTGCTGGCAGTCCTTGTCTTCCCTGACTAGTAGCTACATCATTCTCATT
TCTGCCTCTGTCTTCATATGGCTGTCAATTCAGTGTGTGCTGTCTCTGG
GTCTTCAAGTGGCCTTTTATAAGGACACTGGTCATTGGATGTAGGGCCT
ACCCCAATCCN
>Sequence 755
GGTACATGTTGGAAGGGTTTTTAAATGTTTTGAAACTGTGCACAGGCCA
AACCCAACTTTTCAAGGACATGGGTTTTCAACTTCTGGATGGTATGATGGGG
TGATAGTAGGGTATAAAAGTATCCTGAGAAGTTGAAAGCAGTGTGTGAAT
GGGGTGTCTTTTCTCCCCACAATCCTTTCCCATCTGCTGACAGTAGACT
TAGCACCTCACAGATGCTTGGGCCTGGAATGGAAGCCATGAAAATGAAGC
CCTCAGCCTTCTTGAGATCAGAGCCATGGTCTCACCCACAGCACATGG
GTT
>Sequence 756
GGTACACAAAATATTAATAGGATATTTATTTCTAAGCCAAATTCAGAA
AACAATTTACAACTTTTTTAAAGTATAAACATAGTGTATGCTTACTAT
AAAAGGAAAAGTATAAAACATTACTCAAGTATATATAGAAAATGAGTGGG
CTGCTGATCCCCCTCTATATTATCTATTGCTGTGTGACAGTATTACCACA

Table 2

AATACAGTAGCTGAAACAACACATTTGTTTTCTCACAGTTTCTGTGGGTG
AGGAGTTCAAGCATAGCTTGGTCCTCTGCAAGCTTACAATCCAAGGGTTG
G

>Sequence 757

GGTACTTCTTTTTTTTTTTTTTTTTTAAATGAGTAGGAAGAGATGGTA
TCACAAACACAAAGCACAGGTTACTGTCTTAAAAATTTGCGTTCTTCTA
TTCTCCAATGGAAGTGGGAACAAAGAGAAAACCCCTGTGTGCTCCTAGCAC
AATATGGGCATTTGTGTGGATTTAATAAATGGGCATTTGGATTGTGGGA
AAATGTGATCAATCAGCAGGCTATAGAAACACAGTTTGATACGATGGTGA
AACTTGTCTACAATGATGTTTTTTCAGAAATGTTGGTGTGATTAGAACA
AGTCAGCAATGATGATGACAAAATATTACATAATGTTATAGATGTGGCT
TGCTAATGGAAATACCTATCTGAGGCTGTTTAGGAATACACAAA

>Sequence 758

GGTACTTGTTTTAAAAACAATGTTGGAAATGAGGAAAATGAGCAATATCAA
CATTTTATCCTGAGGGACAGGGAGTAGAAAACAAGCCAGAGGCTGCTAGT
TACATAGTTCAGTCTTAGGGATGAAGGGATTTATGTCTCTCCTCCCTCAG
GTACGCGGGGACTACACTGGTGTCTGACTTTTTCTTAGAGATTTCTCCC
TGAAAAATACAAGGGCTGTTGGTGAGAGCAGACTTGAGGTGATAATAGTT
GGCCTCTGGTCTACAAAGATTTTATACTCCTTGAAAGCTTCT

>Sequence 759

ACTCCGATTGCCTCTCCCATGCTTCTCTGCTTTCCAAAGAAAAAACTGAC
CTTGATAGATCCTGTCAAGCTGATTGCAGTGCTCTTAACITCTCCATTGT
GAGTTGTTCAAGTCTGAGGAGTTAGGTATAAACCAGAGTGGTATTCTCTT
TTCTGTTGTGTTGGTTTTGCTTACATATTCAGGAGCTGCTCTTTACCCC
CAGAACATCCGTATATATGTTTTTTCTGTTTCTAGATTTAAAAATATTC
CAGAAGCCTGGCCTCAAGATAGATAATATTTTACTTTTA

>Sequence 760

GGTACTTTTTTTTTTTTTTTTTTTTTTAAAAAATATCCTTAATTAG
GTAAAAATTCTCCTTTAAATTAAGTAAAGTTTTTATGAAAAAGGATGT
TGAATGGATTGAATGCTCTTTTGCATCGGTGGATATATTTTTTTAAAT
TTTTCAAGCGGGTAATTGGGTATTTAATGGGGGGTTTTTTTTAAAGTTT
AAGGGA

>Sequence 761

GGTACAGATATAAAAAGGCTACTATTCCAAGAACAAAATCCTGGAAACAA
ATGTCTATCAAGAAAGCAAAGATAATCTAAACAGCAGCATATTATAGGA
TGACAAACTATTCAACCATTAAGAAAGAAACCGAATCAAAAGCACTGGCT
TATTAGACAAGAGTTTCCAAACTATCATGCTAAAACAGTAACAGCGAGC
TTCCAAATTAATGTTGCCTTTTTTTTTTTTTTCCAAACTGAAAGGAGGG
TGGGGAAAAACAAACGCATCATATGTAAAGCACTGAGTCCAGCCTG

>Sequence 762

GCGCCCTTCGGCCGCCCGGGCAGGTACGCGGGTATGGTTTTACGAACAAA
TTTTTAAGGAAAAAAATTATCATGGTTCTAATCTTACATGTTAACATTTT
CTTGTTATGTAGGGATCAGACTTGTATAACATAATTCCACTTTATAATT
CAATGAAGAAGAAAGTTTTGTCTGATTCTGAGGTATGTAATATTTTATTA
TTATTACCATATTGATATTCTCTATATAAAAAAATTTACATATTGTAGTT
TTCAGGTAAAAGCTGTTGTGAACATTATTTTTTGTCTAGTGTAGTTAATT
TAAAAAATAAAAAAACAACCTGA

>Sequence 763

GGTACGCCTAAGGGAGAGCTGGGAACTCATCAAAGAGACAAAAAGATGCT
TTTTTGCTCTGAAGGCATCGCTGTGGTCTTGGTGGCGCAAGTAAATATA
GTTTGGGGGCCCCGATTGCCATGGACTTTGGCTTTTCTGGTGGGAACAA
ATGGCCATCAGGTGGACCAACCTTGACACATCCCAAAGACCTGGCACT
CATCTTGGTATGAAGGGAGGTTAAAAATAAAAGTGGTTGAACATCCTCTT
GGATGTGTTTAGGCCAACCTTGTTTACAAGACCCCTGGAATATTGTGTTT
TAAAAGGGGGGTAGGTTGGGAATCCAAAAACCTTGGGGGACAAAAAAG
TTTCATTCCGTAACCTGTTGAGAAATTTCAAATTTTATTGGTTCCCCCAA

Table 2

GTATTGAATTAAAAAACCCTTTGGGGGAAGAAAAAAGTT
TTGGTTGGGGGTTGGATTGTTTGGGGCAATTTACCGGAACCGGAAGTGC
CC

>Sequence 764

CCCTTACCGGCCCGCCGGGCAGGTACGCGGGATTCAATTTGAGTGGGAATC
TCAAAGCAGTGGAGTAGGCAAAAAAGAACCTCTTCATTAAGGATTAAA
ATGTATAGGCCAGCACGTGTAACCTTCGACTTTAAAAAATTCTGAATCCCA
TATTTGATGGTATGGTTTCAATTGGTCGTCGGCAGGGGGTAAGTGAATCCT
TGGGCAGGTCAACCATAGCCTTCTAACCTTTGTTTAACTTTTTTAAGCCT
TTTTGATCCAAAAAATCTTTAACTTTTTATAAGGGAGCCAAGTTTTTTC
AAACTTCCCTTAAAAATGGTTTGAAATTATTAATTAGGTCCCAGGTAAAAA
ATTTCCACCCAAGGCCTTCCACCAGGGGAAATACCCAGGGAACTTTTTTG
AAAGTGGGAAAAAATTTGGAAATCTTCTTGAATTAACCTTAAAAA
ACCAATTTCAAAAAGGAAATTTCAAAAATT

>Sequence 765

GGTACAGAAGCAATGTTTTTGAAGTTTTCTATCTGAGGATTGTTGAAT
CCACAGATGCAGAACTCATGGAACAGTGCCCACTGTATGTCACAATTC
AGAAAATCAGTATTTTATACAATCAGCTAATAGCCTAATTTGTTGAGCAC
AGAAAAATACACTGAACCAATTCTGATTATTGCAGAGAAATGATTGGCAG
GATATTGGGAAATAGAATGAAGGGCGGAAAGAATTTACATGGATTTCAGT
ATACTCTCCGTCAGGAATTTTGTTCCTTGATCTTTTTGTGTTTATTGC
CTTATTTATTGGGGCCCTCTCATAATAGGTGGGTTTTCATCCTAT

>Sequence 766

GGTACAGAAGCAATGTTTTTGAAGTTTTCTATCTGTGGTTTGTGGAAT
CCACAGATGCAGAACTCATGGAACAGTGCCCACTGTATGTCACAATTC
AGAAAATCAGTATTTTATACAATCAGCTAATAGCCTAATTTGTTGAGCAC
AGAAAAATACACTGAACCAATTCTGATTATTGCAGAGAAATGATTGGCAG
GATATTGGGAAATAGAATGAAGGGCGGAAAGAATTTACATGGATTTCAGT
ATACTCTCCGTCAGGAATTTTGTTCCTTGATCTTTTTGTGTTTATGCCT
TATTTATTGGGCCCTCTCATAGTTGGGGTTTTCATCTATCGGTACTCCTT
TCCTGTCTT

>Sequence 767

GGTACAATCAAAGGAGTCTAATGGAACCAAGTAGCAATGTTCCCGAAAAAC
AAACAAACAAAAAACCCTAAACATTTTGCTGTTTCTTTCCCTCTGTATT
TGCTAACTTTATCATGACTTTATCTTAAAGCCTATCACTGGTCTGCTTT
TATTAATAGATTAGTGGAATTTTCACCTGGCCTATTAGCACCTTATAAA
GAAATAGATTAAGAGTAGGAAATATATAGATGAAGATGTACTGTATAGAA
GTTGTGTAATAATCAGTATGAAAGTTCAATGTTGCTGTTCTTGCTCAGTGA
TTTTAAAGAAATTGAGTAGTTCCTATGTGATTTTTTTTTTCTTTCTAA
ACTGG

>Sequence 768

ACATATACATTATGTAATGAAAAAGCGTGCATGGGGATGAAAAAATTT
TTTTGTTTATATGCGGATACAATATATACAATAAACACCTAAACCGCAG
AGGCTTGCTTGTTATCCACAATAGTTAATACCCAATAGTAATTAATGGA
TGTGGTATGGTTAGACACCAGTACAAAAAAGCAAGCGGGACGTTATTTAA
ATAGGGCAAGAACCACAATAAGCCACCACCAAAAGGCAAAAAGGCAAA
AAAAGCACCGCCCAAGTAAATTGTTTGTGGGATTGCCAGTTATTTCAA
GAATTTTGTTCATAATAAGAACAAATTAATAATCCAGGTTAGAACCAC
TTGTTAAATTAGGTTTTTTGGGTTACCCCTTCGGGCCCGGCTGACACA
CCGCTTTAAAGGGGCGGAAATTTTCCCAAGCG

>Sequence 769

ACTTATTTTTTACTAAGGTTTTGTTTTGGAGACTTGTTTGAAATAAAGT
GATCCTCATTCAGGATTAGAAACAAAAGTTATACTCCACATGCTAGGGA
TTAGGAAGGCTAATGTGAAGTATCAAAAGTATGAATTATGGAATGCCTT
TAGAATAATCAACTTTTAGGTAATTTGATACTGCTATAATTTCAAGCTTA
GAGAAAAGTTGTAAGAATGGCATAAGGAACTCCTATATACCTTTATCTA

Table 2

GATTCATAAATGTTCAATTTGTGCCATTTGTGTTATTCTTTGTCTCATC
CTAGCCCAGTCAGCCTAACACCACCAGGGATAAACCAAGTAGTCTGATAA
>Sequence 770
ACCTCTCATTTGTCACTTTTCAACACTTCTTGGCAGGCAGGCAGCATAAC
TGGTCCTGCTGGGGACCAACACACTCTGCAACTCTTTCTTCTGAGCCAGG
CTCCCCTACTGCTTTTCAATTTATGTCAAGGCAGGGGAAGACCTCAAAGG
GCTCTTGCATCCCAGTCTCACTTCCAGAGAGGCACGAGGCCCTCCAGGA
TGTGGGGACAGGAACCTTGGGGCAAGCCGGGGTGTCCAGAAGATCACCA
GGAGGGCTAAATAGTAGAAAGGAGAGTCTTATTGGTGATATGTTTGCAAA
CTGGGAAAAGATAGCCTCCAGTGTGGAGCAAAGATGCTCCTTCTTCAAAG
AGGGCAAGGGCAGCTTGGATTTTGTGCCTTACAGGGTCGGTATTATATAA
TAGAGTCATGCATATTCAGTAGGTTTGGGGGAAAAGCTATATATATTTAT
GAGGGGAGCCAACTACATGGGCAATGGATAAACATACATGTAACACATCC
CATGTTCACTTANGGGCAGGATTTTAGCATTAAAATGAGGTGGAATTTGG
CTCTTTACATCAAAAAGTGAGCTATCAGACACAAAGGCGGTTTGTGCACA
AGCTCTCAAAGGACTNGAGGGCTACAACCTGCTCATTTTGAAAGAAANTC
TGTAAGACCAGCCTTGTCAACCAGATTAGGAGGCATCTGACAATTGCCTG
ATAACTGTACCTCGGCGGGACACGCTA
>Sequence 771
GGTACAAATAAAGTATTCCAAGGGTGCAGAATNGAAAAGGAAGGCAAACA
ACTTGTGACATTTGGGAAATTGGGATATCCTTTGGGGAAATGTAGTAAT
CAGTATATTCTGGGAAAACATTATAGAAGAATGAATAAATAAAATTCCA
TTGAATTTGGAATATGTTGTCCATTCTTCCCTGTAACATAATGCTATCAAG
ATAAAGTTAGAAATACCACATTTAGAAACAGCTGGAAGTAGACAGGGTC
TTCATAGGGCTAGCTTGGGAAACCTAAATAGCTATTAAATAAATGAAATT
TTTAAGTTATTACTTCTGGGAATTCTAAACAAATGAAACACACCAGTGAA
TCTTTTTTTGACCTTGGCTGC
>Sequence 772
GGTACCACCAATAATGATGCCACATTTGTATCCTAAAAAAAAGTGATTT
CTTGTTCCTTTGCCTACAAGAACATGTTTCTGTTCCGCAAAGGAGAATA
AGAAAAACAATGACCCCTTCCATTCCCATACCCAAAACTAAACTTCC
AGGGAGTTGAATTAGAAATCCACCCTGTGGGGCATTTTTTTCCCCCAAA
ACCCACCCATTACTCTTGTAGAATTCTGGATTAAGGCGGCTTCTTTAA
AGAAAGCCCTACCAGGCTTCTTTCCCCCAATTACCCCTATTCTGGAAAA
AGCCAAGGGAAACCCCACTTGCTTTTGGGTCCCAGGGAAAAACAGGGC
CATTACAAAACCATTCAGGAATGTTGGATTTTATTAAAAATGGGGCGC
CACCAAATTTCTTAAAAAAGGAAAAAACCCCAAAAAAATTAATAAA
>Sequence 773
GGTACTATCATCCCCAAGGCCTTTTACAGTCTGAAATATCAAAATTGAA
AGCAAAAATAGGATGACCAAAGGAACTACTATTTACCTTCTTTTCAGGA
ACTTCTACAAATAGTTAGAAATACTAAATTTCCCTTTATGGGAATCTTCA
AGGGGGGGAATATAAATTGTGCCCATGTTTGAAAGGGGGCATACAGATG
TATATGGATGTACCAAGGGCTCGGGCATTTTTTTTCAGAGATGGATGGGG
TTTCATTAACCTGAAACAAGGTAAGGCCAGTGTCTTCCCTTTAAAAACCA
TAGGTGCTGTTTAGGCAACCCCAAGGCCACCCAATGGAACATAAGGGGCCAT
GGCCTTTTTAAAAAACAATAATTTTTCTTATGGGAACCTTTAACCGCCC
TTTCTTATGGGGCCCTGAATTTATGTTATAAATTGGCTTTAATTGAAG
>Sequence 774
ACATATACATTATGTAATTAAAAAGCGTGCATGTGTATGTATTAATAA
ATGGTATATAAACAATACTAATAACAATAAACAACCTAAACGTCAGA
GGGCTGCATGTTATTCCACAATAGGTAATAACCAATAGTATTTAATGAA
TTGTGTAATGTATGACAACAAGACAAAAAAGCAGCGGGACGGTAATTAAT
TAGGGCAGAACACAAAAAGGCACCAACAAAAAGCCAAAAGCATAAAAA
GGCATCGGCCAAGTAAATGGTTTGTGGGAATGGCAGTAATTCAAGGATTT
TGGTCCATTATTAGAACATTAATAATTCAGGTAGGACCACTTGCTAATT
AAGATTTTTTTGGGTATTTTTTAAACCTTGGAGGACCAAAAAATTTGGGG

Table 2

>Sequence 775

GGTACTTTTTTTTTTTTTTTTTTTGAGAGGGGTCATCCTCCAATCATT
ACTACTTCTAATCTTCACTGCTACACAGAAGTTTCCAATATTTAGCAAC
AGATGGCTTTGCTTTTACCTTATAGATGAGGCCAAAGCACCAGGTAGGTG
GAAGGTTCTTGTATCGGTTTCGAACCCCGACAGCGCGCCAACAGACAACAC
GAGGCAGTGGGGAGCAACACGCTGTTTTAACGAGCGCCTGGGTGCAGGCG
TGCTTGAGCTGAAAATGGCATTTCAGCCCCAAGTGAGGACAGGGCAGGGGT
TTTCACAATCCCTTTGTAACAGGAAGTTGTTCCAGCCTGATATGATTGCT
ATGTAC

>Sequence 776

GGTACTTTTTTTTTTTTTTTTTTTGGNCTGCCGTGGAGAGGATG
GATGGGAGGGGGAAGAACNAGAGCTTTGTTTAGAGGCTGTTGTAGTAATC
CAGGTAAAGGCTTTAATCATGTCCTGAACAATGATCAGCAATGGCAATG
GAGATGACAGAACAGAATTAAAGAAGGAATAAAAAAGGCTTGCTGACTAC
TTGGATGTGGGTGATGCTATCCTTTGACACAAAGGATTTAAGATGAAGAC
CATTTTTTGGGGTAAGTAAAAGGTTTGGATTTTTCATCTTACAGCTTT
TTTTGTACTATT

>Sequence 777

GGTACTGCAAGCCAAATGCAATGAACAAACCAAGGTTATTGATAATTTTA
CATCACAGCTCAAGGCTACTGAAGAAAAGCTCTTGATCTTGATGCACTT
CGGAAAGCCAGTTTCCGAAGGTAAATCGGAAATGAAAGAACTTTAGACA
GCCAGCTTGAGGCAGCTTGAGAAACAGAATTAACATTTTAGAGAATTGA
AAAAAGAATGGCTGAAAGTAAGCAAGGGCTTAGTAGCCATTTAACCAAGA
AGAGGCTTCCAAGGGGGAGAAGAAGCTTAAAGGCTTTACTAAACCTTTTA
AGGAAAAAATTTTGAAGTGAAAGTCCAGTTCAAAGTGAAAAAGTAGAACT
TTTGGGAAAAAAGAACCTTTCAAGAATTTTGGAAAAGAAAAAAGTTT

>Sequence 778

GGTACTGGTTATCAGGATAATACTAGCTTCACAGAAGAAGCTGGGAAGTA
TCCCTCCTCTTCTATTTTTTTGGAGGACTATGTGAAGAACTGGTATTAA
TAAAAACTCCTTATTAAGGAAATTTTTTAACATACCAAAAAATAGTAAGA
ATAGTATCATGAGTTCCTGTGTGATTCCCGCCTAACTTCAATAATTATC
AATAGTCCACCATTCCTATTTTACTTATACTTCCCCTCCCCAACACCTTA
CTCTTTTGGCGGGGGCTGAAATTATTTTAAAGTAAATCCCAAACATATCA
TTCACCTTTAAATACTTCAATGTATATCTCTAACAGATAAAGACTTTTTT
TA

>Sequence 779

GGTACTACGAAGCTGCAGATCATTACGCTGATATGAATGACTGCTTGAAA
GAACAATGACTCTGGCACAGCCACTGCTTTTACCCAGGAAAGCAGTTTT
TCACAGAATGGCTTTGATTTTACTTTGCACACCATTTGAGAGAATAAAAA
GAAAATCTAAAAGTTAGTCTTAGAGCATACAAACATTCTATATACTATTT
CATCAACTTTATGTGATAATGATATATAATTTATATACTGAAATTATT
TTCAGATCCACTTACTGTGCTTAAACCGAAAGTGAATGATAAAGAGCAAT
GAATTATCTAATGTATCTTTATAATTAAGAAATCAAG

>Sequence 780

ACAGACAGTGTGATGGATGATGCTGCTGGTTGTAAATTTTCATCGTGTGTG
TCTAATTTTTTTTCTGTTGAATGGGTAAAAACAAAACAAAACCTTTTTT
AGAAGATGAATTTTGTGTCATGTTTTTGTGGAATGAGGGATCCGTTGA
GCTTCACTATCCACCTTGGAAGTTTGAGTTTGAAGCCATGAAAATTGGTT
GCCCCATTGCCTTGACGGCTTSCAACCGCCTTGGAATCTGCAACGTTGCC
CCTTTGTAAGAGGGATTCTTTACCCGTTCTAAGAGAAGGCATAACCGC
TTTTCTGAAAAAACCTAATTTGTCTTTCAAAAAAGAACCCCTCTGGAG
ATTAAACCGTTTTCAACTGCTTTTCAATTAAGA

>Sequence 781

GGTACTTTTTTTTTTTTTTTTTTTTGGCGGATGAGTCTTTTAATAGA
AAAACACACGTGCAACAGTATCAACACACATTTTTTGGCAATCCTGACAG
CGCTGAACCTCAGTTCTTACCTTGGGGGGTGGCCTGTACATATCAAAAT

Table 2

CTATCAAATTGGACCCTCAACTATGCATTTTTCTGTGTGCAAGTTATATC
TCAATTACAAACAAACAAAAACAAAAACCTATGGTTAACCCAAAACCT
AAACTATACCAAGAAATATCAATTGGGGTTATGGCATGACCATCCTCCC
CAAGAAAATAAAATGCTTGACAGATTCTGAGCGGGACAAATTTCACTGAT
CATATCCCAT
>Sequence 782
ACAAATAAATGAGTTTGCAGTGAATTGGGCCTTCAAATTACCTCAAGTGA
CAGATAGTAAGAAAAGCTTCTTGAGCAGGTGGAGGTCACTGAATCCCCTA
CTATGCACTTATCAAGATTTTACTTACTTTAATTTACTGGAAATTGATTT
TTTAAAAAATGACTACACTGTAACAAGGGAAGGGATCTGGGTTTTTTTGT
TGTTTTATTCTGTTTTTTTTAAGTAGTTCAAATTTCTGAAACTGTGATTT
AAAAATTTTTTACAGTCAAGCATTCTGATTTTGAACATAACTCCCTTCCC
TTTCTGTGTAACAAAGGTCTCTCTGTTATCTCTTAAATTTTGTTACATCT
CCCTCAT
>Sequence 783
GGTACTCTTCACTGTCTTTGCCATGAAACTTTATAACATGGCTCTCCAGG
TGTTGAATCTGGTGCCCTGTCAACCTGTGCTCAGGGAACACATGGCGGCA
ATCAGCATGTGAGGCGCAGAGGGAGGGCAAGCTCCCCTTGATATTTGA
GGTATCAGCTGACTCAAGTCTCTCTCCCTTCTCTCTTATTCTCATGCTA
CCTCTCCCAACCATTTGTCTTAACTTCCCTGGCCAGGATGCCTGCCATATT
AGATGGAGAGGAGGCAGTTTCTAAATGGCTTGACTTTGGTGAAGTCTCAA
CTCAAGAAGCTCTGAAATTAATCCACCCAACAGAGAACATTACCTTCCAT
GC
>Sequence 784
ACTACTCGATTGTCAACGTCAAGGAGTCGCAGGTGCGCTGTTCTAGGAA
TAATGGGGGAAGTATGTAGGAGTTGAAGATTAGTCCGCCGTATTCGGTGT
ACCCCTGGGAGGTGCCAGTCATTGAATAGATAAGGCTGTGCCTACAGGAC
TTCTCTTTAGTCAGGGCATGCTTTATTAGTGAGGAGAAAAACAATTCCTTA
GAAGTCTTAAATATATTGTACC
>Sequence 785
GGTACAAGAGGATATGTGTGCATTACATGCAACCACTACACCATTTAATA
TCTGGGGTGTGAGTATCCGTGGGTTTTGGGTATCCGTGGGGGTCCCTGGAA
CCAATTTCTCCTGGATACTGAGGGATGACTGGATTACTGTGTGTTGTGT
GCTTGTTTTTAAGCTTCAAAAGATTATGTGATCTAGGAGTTGTTAGATTT
TATTATTGGTCTTAAAGATAAGCTTAGATGTGTTACTTTTTTGGAGTTT
TAGTTTACAGTGATTTCATGAATCGGGCAGCTTCAGACCACAGGAGACATG
AAGCAGGTAGAAGTTTAAGAAAGCTTGACAAGCAAAATATTGATTTGGT
TAGAG
>Sequence 786
GGTACTAAAACATAAACTGAGCAGTTTAAAACATTCATTTAAAGGGATAT
CTAATGTGTTTATTATTAACATAAATAATGTTTTATGAAAAATGTAACCT
TAGTTTTCCAAAACAAAAATGTTTAGGGCAAGAGTAACATTATTTACAT
TATTGCATCTCAGTGAAAAATAAATGGCAACAAAATCTTATATCTGCTT
CTGCAGTTAAATCTGTTCATTTTGTTTTGGTTGAAATATATGAAGGAAAT
CTGTCCTCACACAGTTGTGTAGTGGAAGGAGGGGACTATTGTAACAGGC
TGTGCACATTATTGGGGATGATTTTCTTTGATACAACAAC
>Sequence 787
CCCTTTGAGCGGCCGCCGGGCAGGTACGCGGGATTCTCGTTAAGCAGG
CATTGCTTTGCCCTGGAGCAGCTATTTTAAGCCATCTCAGATTCTGTCTA
AAGGGGTTTTTTGGGAAGACGTTTTCTTTATCGCCCCTGAGAAGATCTAC
CCCAGGGAGAATCCTGAAGACATTCTTGGCCTACCTTTTACTTTATTTAG
CTTTTCTCCCTCATTTATATTCTTTATACACCTTTTCTTTTGGG
AGAGATTGTTTATTGCCAATGAATTTTTTGGGTATTTTTATGTTAACAA
AGGAATTAATTTACCTAAATTTCTATTTTCTTTTATGTTTTTAATTCCT
AAGTTAAAGAGAAAAATGGTTTGAGGGGTCAAAGCTCATACCAAAATTAA
CCTAAAGGCTGAAGGGTTAGGAGAA

Table 2

>Sequence 788

GGTACCTGCAGGCCTCCTACACCTACCTCTCTCTGGGCTTCTATTTTCGAC
CGCGATGATGTGGCTCTGGAAGGCGGGAGCCACTTTCTCCGTGAACTGG
CCGAGGAGTAATCGCGAGGGCTACGAAGCGTTTCTCTGAAGATGCATAAA
CCAGTCGTGTGCGGACCGCGCTTCTCTTTCCAGGAACATTCAAGGATAGC
CAAGCTGGATAGATGAAGTGGGGGTTAAAAACCTCCAGGACGGCCTATGA
AAAAGCTTGCCCATTTGGGCCCTGGTAGGAAAAAAGCCTGAAACCCAGG
GCCCCCTTTTGGGAATCTTTTCATTGCCCTTGGGTTTTCTTGGCCCTGC
AACGGGACCCCCCAATCTTTCTGTGGACCTTCTTGGGAAGACTTCA
ATTTTGCTTA

>Sequence 789

ACTTTAATTTCTTTATAATTTGTTTCAGCTATTTAAAAAGATAATCCACAA
TCTCCTACCGCCATTAGAGCACAGGAAAAAAATTCAAAAATAAAGGAA
AAACATGGCTCATATATCTACAGAAGTCACAAAAATACTATAGGGCACAT
ATACCCAGGCCTCAGCGGTGGGAAGAAAACATAACAACCGGGCAAAAT
GTTTGAACACTGAAGACGGGAATTTTTAGGGCCATNTCAAGACCATGTT
GAAGGTAACCTGGGAAAGTCCTGGATAGAAATAGATTAAATN

>Sequence 790

CCCTTAGCGTGGTCTCTGCCGAGGTACTCAAGTCGCCCTTATGGAGCCCT
TGATTACGGCTTCAATAGTGTGGACAGTGGTGATAAGAGATGGTAGGGAA
TGAAGTAAGTGTTTTTATGTTCCGTGTGTTATAACACCTGATTAAGAGA
AAACAGAATGATGAAAATGAAAAGCGTCTTAAGTGGATTTCAGTTTCTCAC
TACATAAAATACAGAAAAGTCAAGGTGGAGGCAAGATTCCCACCTCTCC
AGCAGAATTGGCATTCTGCGTCCTTACCGGCTTTCTGTACGTGGATTTC
CGCCTGTTTCTCATTTGCCCTCATGGAAATAGTTTCATATCATAGAAAGGC
AAACAGGAGCTGAGCCAGTTGAAACTGAAGCCTACAATCTGAGGTGGGGG
GTAATCTCGAGCAGAGGTGCTAGATGGTGAGAAAACAAGTANGACTTTTCG
GCTGATGGGTAGAAACAAGGACCTTAATAAAGAGTATTTCATGTGCTCAAG
AAGAATAACTTCCTGGCTAATTCTTGTCTGTTGCTCGTTTTTAAATTATT
GGATATATGTTGTCTGCTCTTAAATTAAGTGTGTTACAGAAAGTCTACAA
AAAAAAAAAAAAAAAAAAGTACCTGCCCCGGGCGGCCGTTTAAAGGGCGA
TTCCACACACTGGGGGCCGTACTTATGGATCCAGCTTCGTACCCAACTT
GGGGTAATATTGTCTAACTGTTGCTGTGGGAAATTGTTCCCTCCAATT
CCCCCACATT

>Sequence 791

GGTACTAATCTTTTCTCTTTTCTTAGACCGATTCTAGTTTGTTCCTTC
CCTTTCTCGGAAACCCCAAGTTTGGGATGCTGCAGACACTCTGTGCCCC
CCTGCATGCTGGGTGCCTGGCCAGCTGCCAGGGCATAAAGACAGAGACGA
TGTGGCCTTTGTCTTAAGAATGAGGTTTGAAGCCTCAGTTCTTCCATG
TTAGGTGATTTCTTGCAGCTCTTGGTATCTGCAGAATTAGTGTGAATGCT
TAAAAAATTAACAGCTTTATATCATCAAAGTTTAAACAGT

>Sequence 792

GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAAGCTGAAGGCCAC
AGTAGCTAGCTAAAGGCCACACCACTGAACACTAAAACCTTAACCTTTACT
GGCTACTTTGTAGATAACATTCACAGCTCACCATGAATGCAGCTGCAGTC
AACTAACAGATATGAAGTTACCACTGTATTACATGGTTATATTAGGGACT
GCTTCTACCTACTGGAGGCTGGGGAGGAATGTAACAGCACAAAGCCATAAT
GAAGTTTATATACAGGCTTAATATAAAAGAAAACCTAGAAATGAACTCAA
CACAATTATGT

>Sequence 793

ACCATGCAGGGATAGCTGAGTCTTCATCCTCCTCAGCCCCATCTGTTC
GTGCACTGAACACCAGCTGCTCTCTTCTCTGGCTCCCATGGCAGCCA
TGGTCTGTTGCAGAGAGAAGAGGATTGCCCTGTTCCCTCTTAAAGGGAACC
TCCGTTTTGCTTTCTGGAACCACTCTCTTAATGC

>Sequence 794

ACGAACTTAAATTTATGATGAATATCTTTGATAATGAGAAATCCTGAGAG

Table 2

ATTTTACTTTCAATTTTATTTTAAATTTGAAAGAGCATATGACATCTGGAA
 TATTTTAAACATATAGCCATACTGTTTATTTAAATTTGTAATAATAGAAA
 TAGAGTAATTTCTACTGTTGGATTTTAAATTTTAAATCATATTAAGTTTAA
 CTGGATTTTATTTTAGGACTAAAATATTTAGGACTAAAATAAAATTTTATT
 AATTAATTTAGGACTTTTGGGAAAAGATATTTGAGAAGTTCAGTGCATAT
 CAAAAAAGCGAACAAACAGAGGCTTCATCTTTTGAAAACCTCATTGGCTAA
 AAGTGT
 >Sequence 795
 ACCCTAGGTGATCTTTGGCTTCCTCAAGTTTTTGCACCACTCAGAATCAT
 TTCATATACCACCTTTGGCAAACATGCCAGACCTGCAGTAGACTGAAGGA
 AGCTCTCCCAAGCTCTAAATTGATTAATTTATTAGTTCCTAGAAGAAAGA
 GATTACATGTTTATCTTTTGTACAGAAGAACTTTGAATAGCAGTTGA
 AAATTTGGCAGGGTGGACCACCTAAGTTGACAGTGTATTATTGTGTCTGT
 TTTGAAGGAATAAAATGGAATTATTTATAAAGTTTTTCATTGTATTAGAG
 AG
 >Sequence 796
 GGTACACTATCTGACCTAATCCTCAACACAACTAAGGCAGGAGACACAG
 GGCTGCAAGGACATTTGCTGCCATCCAATTTGTGCCAGCCTGTTTTATCA
 ATCTGAACCTATATTATTTTAAAGACCTCACGGCATCACTGAAAGATGAG
 TATTATTAGTTGGAATTTTAGGGATGAGAAAACCTGACCCTCAGGGAGAAT
 AACTGACTTGCCCCGGCTCCAACAGTAAGTGGCCCTGCTGGGATTTGAAC
 CCAGGTGTGTCTGACCCGAAGCCTGATCTGACCTCTGACAGTCGTGATA
 AAAATAAT
 >Sequence 797
 CCCTTGGCCGCCCCGGGCAGGTACCGAAAAATGATTTTGTATATATATTT
 ACCACAATAAAAAAGTTTTAAATTTATTATAGGTGACACTGTTTGCTCAC
 GTAGGTCAGGTATTTTTTGGTTTTTTTTCTCTTTATTTTATTTTTGAC
 CAATGGATTACCGTCACCAGGTGATTTTTTAAACAGCTTTATTGAGATAT
 ATATCACGTGCCATAAAAATCACCCATTTAAAGCACACAGTTAAATGTTT
 TTAGTATAGAGTTCTGCACCTCTTATGACAATAAATGTTAGAATATTTT
 CATCACTCAAAAAGAAACCAGTATCCATTAGCAAT
 >Sequence 798
 ACAATTTTATGTTTACAGCTGTAACCCCTGAGTTATCAAGAGATGGAAC
 ATTAGATATGATTTATTCCTATTTAAGATAATAGGACATTGCTTGATTAC
 ATTTTCAGAAGATATTTATCCAAAGAAATTTTTTTTTTAAATCTAAAGGA
 AAGGTTTTGATTCTTATGAGAAAAGAATGAGATTTCTTTAACTGGAAAAT
 TGATTTATGTCCTACAGTCCATTGTGTAGTGATGTTGGATCAATCAGGTA
 TCGCTAGGGTGTCTGTAGAAGTATCTATATATTGCTTTTTAAGTCTTAT
 A
 >Sequence 799
 ACCATGTAGCTCTACTTTTCCATATACAGAGTTGTTTCCTAGCTTTCTGC
 TAATCTAACTGGATTCTCTTCCCCATTTCTCATTACTAGATTATAAT
 GCACATCACATAATAAAAGCTTAAAAATGGGCTTTCACAGTTACTGTTTT
 CTTTTTAAATAATTGTGAGAGAGCTTTTGCATCATTTATTATCTAATCAT
 GATTCAAGTGACTAGGCTGTAGCACCCAAGAACCTTGCCTTAAAAACAGTT
 TATTTTACCCAATAATACTACTTTGCCTTCTTACTTAAAAATGTCCCGTG
 CTTAACCTTTTGTCTTTTATTTTGAATTTAAGCACTTGACCC
 >Sequence 800
 GGTACTCTCTATTTTAAACAAGGCTCCCTCAAGATATTAATGTGACAAAC
 TTACATAGCCAGCTGTAAGATATCTTTCAAATGCGCAAGTAACCTAACAG
 ATTTGTGCAATGTCAGCCAGTAATTTCAACATACATTATAAATATGGCCAA
 TTTTCCCAAAATCTAAATGAATGGAGATAAAATGCTATATAATAAATATG
 TTAGAGCACCTTTCTTGAGAAAACCTTCTAAAAGGAAAAAATAAAGACATA
 ATTATACTCACACCACAGTAAACCTCTGGTCACCTGTTTTGGGTTGTG
 GAATGCCCCCAGCAGCCGAGAGACCTATATTAATATCAACAGAGAAATAT
 CACACACAGAATTAACCACATACAGTAAACAAGAGCGAGGAAGTCCTGA

Table 2

TGGATGGTAATGCTGCAACTTGGCACAGATATATTCACTAGCTTCCCAGG
AATACAAATCTCATGTATTAACCTCAATGTGGCAAGCTATCTCAGATTTGA
AGCCTAAATACTTAAATTTTTACTTTAGAATGAGTACCCTGCCGGGGCCC
GTTGCAAGGGCGAATTTCCACAACTGGCGGCCGGTACTAGGGGATCCAA
GCTCGGACCAACCTGGGGGAATAAGGGCATAACTGGTTCCTGGGGAAAA
TGGGTTCCGTTACAATTCACAACACATTCCAACCGGAGCCTAAAGGTAAA
CCCGGGGTGCCAAAG

>Sequence 801

GGTACTGATTATTCTCTGCTTAGGGAGAAGCGGAAGAAGGCCCTTGGAA
CTGTGAGTTTTGCAATTCACCTTGCTAATTCAACATAGATCCTAATTCCT
TAAATGCTTGTAATTAGAAATTTCTCGTGAAGTGTATTGGTTTTGTCAAG
CAATCTGTTTGGGGAAGTTGAGCAACTGGGGCACTGCTGGCTAGGGTGAA
GTTTATTTAATTTGTTTTATGACATTCTTCATCTTGAAAAAGGGGTTTT
CAAATATTGCTTTCCAGGCATCATTACTTATTGCTGGTTTTTATTCA
AGATTGGGACTAGCTCAAGGTGCCAGGGAAGCGGTTTGTGGTGCTTTATA
TAAAGTCGTAATATCCAAAAAATTGTCTGATTGTATGGGGTATCTTGG
ATGTGGTACCTGGCCGGGCGGTCCTTCAAAAGGG

>Sequence 802

CCCTTTGAGCGGCGCCCGGGCAGGTACGATAGGCATGCAATTAAGAAGA
CCTGCCTCAAACATTTTCTGTGTGACCTGAGGCAAGTCCTTTTATAGCTA
TAAACTAGGGACAATATTGCTGTCAATTTTCTACAAATGTCACAAAGA
ACAAA

>Sequence 803

ACGCGGGGGGTTTCACTGTCTCTTACTTTTAAACAGTGAAATTGACCTGC
CCGTGAAGAGGCGGGCATGACACAGCAAGACGAGAAGACCCTATGGAGCT
TTAATTTATTA

>Sequence 804

GGTACCTTGACAGTGCCTTTTAAATTCATTTTGTGACAGTTGGCAGG
CTCTTTCACTTGAGAGGCTATATCTTAACGATTTAGAATGGAGAGTTTGG
CTCAAGCTCCCTGTGTGTGGTCTGTGCTTTCTATACTTTTATTCTTGTA
TTCCAGAGTCTGGAGGGCTTCTCTTTTTAAAAATTGCTAGGCTCCTGCCAA
ATGTTATAATTTGGGGATGTGAGTTCACTAAGAAATCAACTGACAAGAGG
CAGATTAAATAGGAGAAATGACATCGAAATTTATTAGCATGCAGGGGGGAAA
AAATTGATTACCAAAATATCCCACTAGGGTAGAGATGCTTATATACCCAC
CTCTTAAGAGAGAGGGGAAGTGATGATTTTAGGGGAATAGTAAATACTTT
NTATGGGAACCTCACTGGGCTTGAAGAATATAACAAAAGCCTGGGACAAAG
TCTGTTGGGCCCACAGAACAGACAGTGGTTTATGACAAAAGTCTTGTGAG
ATGTTATGACAGACTTTCAGCTTTCTCTTTGTATATGATTCAAGTTAATG
AAAACTAGGGAAGGGACTAGAGGTAAATGGTTTTTTCTTTGATGGGGCC
CAACCTTAAACCGGATAAGAGGACCTTAGAGAACAAAACCTTATTCTGGG
CTTTGGGAGAAAACAGAGGATCCAAGACAAAAGACGAAAGTTGGATTGAGA
GAGACCCTGGGCTGCTCAATTCAACATGTCAAAGGGCATATTTTGGGTT
TGGGATTTAAT

>Sequence 805

CCGGGCAGGTACTATTACTAGGTTCAATGTTTCCAGAGGGGTGAAACGGG
GCTTTGGAGAGGTTAAATAACTTGCCAGGGTCACACAGCTATTAAGTGG
TAAAGCTGGGATTTACATGAGCCCAGACAAAGAACCCAAGAAGCTAAGCT
ATTCTCTTGTAAATACCTCCAACATAGGAGGCAAGAAGTGAGGTATTATAC
AGGTTGAGGAGATAAAGGGGAGAGAGGCCTGCAGTGCTAACAGGAGGAGC
TGGGATTCATCCTGGCTTGTCTGATAGGTCAAGTGTAGTCTTAGAGATACC
CATGAGGTACCTACTCAAAATGGGGCTCAGAGTAGCCTTGTCCCATCT
TGTCCAGTGGGCGCAGCTACAGTCTTCTGGCCTGGAGTGAAGTGGAGGCT
GTCCCCACGTCCCACTTCAGTGAGGCATTCATGTGCACCCAACACACTTT
CTAGCTTTATTTGCTGGAGGGGAAGATTCTCCAGAACCTTGTAAAGATG
CACAGTGTGGTCTCGGACTGGCAGTGTGGCCTCGGCAGTCCCTGGGAGC
TTGTTAGGAATGCAGAAATCTCAAGCTCCTCCCTACTGAATCTAAAG

Table 2

>Sequence 806

GGTACACATATATACACACATATATAGATATATACACCCACATATATATT
TGCTGACATTTTAAATGTGAAGTTTTAGTCTGGGATATAAAATGGAATGTA
TGACATCCTCAAATGTCTGAATACTGTTCACTCCTATGTTTTACATTTAA
TTTTCCAAAGCAAAACATTTTCAGTTGAGGATTTTATTAGAAAATAAATAA
TCATTTAGCCATATCTAGAAACCAGAATAAACCAATGCCATAAAGCCTATA
GGAAATGCAGGTCAGATTCATAAATATTCATGTGTTTACTTTTCAGTACA
GGGAGGAATTTGAAGTAGATAGAAACCGACCTGGATTACTCCGGTCTGAA
CTCAGATCACGTAGGACTTTAATCGTTGAACAAACGAACCTTTAATAGCG
GCTGCACCATCGGGATGTCCTGATCCAACATCGAGGTCGTAAACCCCTATT
GTTGATATGGACTCTAAATAGGATTGCGCTGTTATCCCTAGAGTAACTTG
TTCCGTTGGTCAAGTTATTGGATCCCGCGTACCTGCCGGGCGGCCGGTT
AAAGGG

>Sequence 807

AATTCCCATGATGTCAGACCACTGGAGTTTCCAGGGGCAACACCCCATAA
CCGTCCCGCTGCAGAAGAGCATCAGACGTTTCAGTAAGAATGCAAAGGGTA
TCTCAGTGGGAACCGCGGACCAGGAGAGCTCCCAAACCAACACATGGCTA
GGGCTCTCTAGGCCCTTTCAGGCTAGATCTTGACGAGAGAAGAGTAAAGA
TCTTTCTGAGGTTGGTGCAACTGAAGAAACGAAAGTTTCGGCCTCTGCTG
TCAGATCTATGAAAGGAAAGAACTGTGAACCTGTCCCTTTTGTCTTCTT
TGACTTAAACAAAAAGAAATCACTGGAACAAAGTCTTAAAGTAATAACA
GAAATGTCAGAAAAGTTGAACATCTTATGGGCACATGCGGTGAGTTACGC
TAACCTATAGCATCCACTGAGATTAGCCGCATAGGATTCTTCCCATGTTA
GAGCTAAAAGGACCTACTGTCCGCCAGCTGCATTGCAGTACC

>Sequence 808

GGTACTATCCCCTACCTATAAGGCATTTATAATGTGCTGGGCATTGTGAC
ACTTTTCATATATTATCTCATGAAATCCTCACNAATAATTCTGAAGGGTA
GCTGGTATTTTTATCTCCACTTTACAATTCTGAGGCTTACAGAAAGTTAAT
TCAGTGGCCCAAGGTCACACAGTTTACAAGTGCCACATTGGTGAATATAA
AGTAGCAACTTCTAAGTTTCACTCTCCCACTTCCCTAGTTATTTTCCTAA
GGCATGAATGTCTGGGAAATAGCATGCATCAGATNTTCCACCTCTTTAAA
ACTCTTCAGTTCATATAATNTAGGGTGTGACTATTCATAGATACCTTTGA
GCTAATCTTCTGGGAGCCAATGTAAACCGCAATGCACACTGCAAAACAATG
CACGCTTTCTCTGTAAATTAATAATGCCAACCGAGCTTGGGAAAAGCCCA
TCTTTTGATATGAACCAATAGGGCAGTTTAGTTTATAGAAATAAAGAAAGT
CCACTGTCTCTGCTTTTCTTTTTTACACACAATAGGTAACCTCTGCTCTAT
CTTCTACAAAGAGTCCCAAGTCAGTTTTCTATGCCTACCCTCTTAAAAGTT
TCATTACACAAGCCAAAAACAATTCCTCCAAAAAAGGATAATGAATCCTA
TTAATGAAAAAGTGGTATTTTCTCTAATCATNTTAATAAAAGGAATGGGG
GATCAAAATGGCATTAAAGCTCATTTTTTGAACAGAATTAATAATAAAAT
GCAAAATATTGTAATAAAAAAATTGACAGATCACAGCCCCCTGTTGTAAGGCT
ATTCCCATTAAGAATG

>Sequence 809

ACTTTTTCTTTTCTTTTTTTTTTTTTTTTGGAAAGAATATTGCATACCTAT
TAGAAAAAGTCTTTTAAACAATTAAAAATTGAAATGACTGACAACTTACAC
TATTTGATTTAAATAAAATAAATGGTCACATGATAACAATCTCCTGA
TTGATATGCTTTATTTAACCAGGTTCTCAAACCATTTGGATGTGAAAACCA
AATTTTACAATGCAGAGGTAAGTGTGAGTGTTTAATGGGATTTTCATATT
AAACAATTAAGATCGTATTTGACTAAAAATCTCTTATATACATTTCTAATA
CTGAAGCAAATCGCCAACGTGACTGTAAATTTATTGAAAAAATCACAAAT
TTCAGTTAAAAATTGAATAATTTTATTATAGGTCTCATAATCTTTTTTCAGC
TTACATGGAATCAATGTGTCTTGTGATTTTTTATCTCGTTAATTTTATAAGG
CCTTCATCTCCTTTTCGGTAAATGATTGCCCTCTCATTCCATTAAATGGTG
GTTGTTACACTAGCAATCTGTGGAATTTTACATGTGGTTTCGGGATTTTAC
AAAAATTGGAATTAGTAGATCTAACGCTTGCAAAAAAATTAATATCACA
TGAAAAAATACTGACAGNTGAACTTTACACATTAATTTTTTCCAGGTAG

Table 2

TAGGTTGGCAGCCAGAATAGGTGCTGAGTTTGGTGAATGGTTTTAAAAAGC
TCTTGGGAAAAACAAATTTGGCAAAGGGGAAGTACTCATTATTGAAAGTTCT
TTTTTTTTTACCTTAAAAAAAGGATAAATGAACTTGCCAAATAAAAAAAA
A

>Sequence 810

CCCTTAGCGGCCGCCCGGGCAGGTAAGTCCATTTCTTTTATTCATATTAT
TTCACCAAATAATATTCCACTGTGTAGATCTATCACATTCGTTTAGCAG
TTTATCAGCTGGTGGACAATTTGGCTGTTTCCATTTTGGCTGTTATGA
ATAATGCTGCTATGAGTCATAGAAACCATTCCTCTTACTCAAGAAACAGG
TTCTCCAGAACTAAGCTAAACTTGTGAAATGTAAATCTCAGGTATT
CTCAGTATAGACCTATAGATTCACTTAGCTGGTGGGGTCCACCAACTTC
TTTTAACAGTCTCCAGTGGATTCTGATGCAATGCTAACATTTGTGAAC
ACTGTCAAAATCAAAATGGAGTCACTTGTGTTTAAAAATCCTGACAAATA
AAGCCAGGGACAGCTATGAAGAGAGGGTCTCATGCATCAATGCCTGATT
AACANAACTATCCCAAAATGACTCTGCANAAACCACAATCCTGCACAAAG
GTCATCACAACCTTACACAAAAAATATCTTCACAAGGACATCTGTCCAGC
AATTGCTGTCCAATCTCAGACTGGTCACACTTGTTACTGATCCTTGTN

>Sequence 811

GGTACAATCATTAATACTATGTTGTAATACTGTTTGTCTTTGTATCCATT
CTGGCGTGTCTCCATACACTTCACTAATATTTGATATACCTGTTTATAC
CAATATAATGCTGCTGCTGTACGTAGAAGCTGTAGTACCATATCCTCTA
TTTGTTCATTAATTTTTTCATCTTCTGGCACACTAGGATCTATAACAATG
ACAATATCTTCAAAGCCATTATTATTC

>Sequence 812

GGTACCTAAGAGTTATTAATACTATTTTCAGTAAAAAAATTTAATAA
ACCCTGTGTGATCCCATTTGTAACAGAAAGGCTGATGTTTCTGTTGTGAA
ATACAAATGCAAGGAAAAAATCATTTCTTTGTTTCAAAGGATGCATTTCT
TCCATAAAGAATAATTTGTATTTATTTTTAAGGGTTTATTTAACTTATA
CATCAGCCTATATAAAATACATTTCAAAATGATCTGTGCTCTTTAAATTA
CCAAAAGCAAATGTTAATTTTTTTTCCCTTAACAGATAACAAGTTTA
CTCCTATGCTGATTTTTCTGGTGCCACTGAAGTTATTTTGAAGCCGAAT
TAAGCAGAGGAGATGGGGATGTGCGATTGGGAACACCCCGAGCTGTTTAC
ACAAAGCCTTAAATGGCCACAAAAAATAGTATGGGGATAATTAATAAA
TCTACTGGCCTTTTCTATAACCCCGGAACTTATTTAAAAATCCGTGA
CATATTACAAGAGATTTTCTGG

>Sequence 813

CCCTTGAGCGGCCGCCCGGGCAGGTACATGTGCATAAGAGGGAATGCTTC
CCTACATTACTCCAGAATACAAAGCTTCTTCTGCCTTTCTCATCCACAT
AATGGAAGACACTTCTTGGGTGAAATACTCCACAGTTATTTCAAGTTCTCA
CTGGTGAGTCTGAATATAAGCTCTATGAGAGCAGGGACCTTGTCAGTCTT
ATTACAAATATCCCCAGCCTCTAGAACAAGGCTGGCACATAGTAGATGCA
CAAAAGGTGTTTGTGAATGAATGGATGACTGAGTCTGTGTGGGGTAATG
ATAGGGCTAAGGATGGGACTCTAACTCAGGTTTCTCTGTGGGTTTCAC
AGTTTACTGGTCTTAAAGAGGAGAGTTTCTTAACTTGCTTATGATAAAA
ACCACCTTCAGCATTTGGTAAAAATTACCCATTCTGTAGATTCTGAGTC
AGTGAGCTGAAGTGGAGCTGATGAATCTGTTTTTTGTGATACTGCTGCTG
CTGCGGTTTTTAACACATGCTTCAGGTGGTTCTAAGCTTAGGAAACCTTG
CCCAAGGATACCATCCTGTCTCTTGGGAACTGTCTCTAT

>Sequence 814

CCCTTAGCGTGGTCGCAGCCGACGTACTTTTTTTTTTTTTTTTTTTTTT
TATAAAACATTATTCATTTTATCTTATTTTAAATTCACATTTATATTAA
CTAATTTTTTATCAAAAAACCAACCAAAACAAAAAATATTACAACAAA
CAGAGAAACGAATCAAAACCAAAAAACCAAAATACTTTCTGGAATTCAAAT
GATACATTATATACCTATCAAGACAACAACTACTAACTACCTAACT
ACAAATTATCATAAAAAATGACTCCTGTCTATATCAATAAAAAAATGCTA
TAAAAATTGAGTATTATAACACAATACAATGTCTACAGCTTTT

Table 2

>Sequence 815

ACAAGTATTATGTATCCATAAAAAATTAATAATCTTTAAAAATGCATATG
GGGGTCAGTAGGTAAAAGAAAAGAGAACCAAGAGAGCTGCAGCGGGGAGC
ACAGCTTGCTTTAAACATGAGATCCAGCTCAGTGATCATGCGGGGGAAAA
GGCCCGGCATTGCTGGAACCTCTAATATTTAAAAAGATGATGGAACTTG
AAATTTTATATTTAATCTTCTCATTTTAAAGTGTGGCAATGTATTGAAG
ACTTTGAAGCCTCTCTGCTGGTCAAACAAGATGTATCTGTAGGCTGGATT
TAGTCCACAGC

>Sequence 816

GGTACAACGTGAATAGCTATTGGTCTTCAAGTGGGTTTAGATTGGTGAC
ATCAGTTTGATATCTCTTAAAGGAAATAAATATTCAAGAACTGATTATG
TTCTAACATGATTATATTCATGGTGTTACATAGGCCTCAATTTTTTCA
GAAAGATTTTTGGAACAGGACTGTGAAGTGAGGCTTTTTAAAAAATTATT
TTATAAGCAGAGAACACAGCCTGATAACTTAGTCAAGGATATACTGTCTG
TCTCACTACTTTGGACTTATATGGCTTCAGATTAAGTCATCCAAGAAACA
TACATA

>Sequence 817

GGTACATGTAATAGACACTATGCTACAGCAAAAGCTTTTCTTATTGTCTT
TAAAAATTTCTGGGTGCATAAACTATGTNGGTAACCTTTTCCCAATTT
TTAACTTTTACATTACAAAGTCATTTTCAGAGTAAAAAGTCATTTAACAAA
GGCAGATAGAAAGGCCTCAATCCCTGAGGACCAAAAAATCCCAACACATT
TTCAAAAGGGAGAAAATTTCTTTAACTTCATGGGAAAAGTATTTTAAAC
ATAATAGAGAGGCTTTATGCAGT

>Sequence 818

GGTACTTTTTTTTTTTTTTTTTTTTTTTTATTTTTTTTTTTTTTTTTTTT
TTTAACACTTTCAATTTTGGAACATTTGTTTTTTTTTTGAGGGAACAAAA
TTAAATTTTCAATTCTAATTTTTTTTTTTTTTTGGACACATGTATTCCTT
TAGTGGAACAAAAGGAAAAATAACTTTTTTCTCCAAATAGTCGGCCTGG
AAAAACCAAAATACAATGCAGGGATGGAATCAAATTAACAAATTTTTTT
CCTACGGAACAAGAGCCTTTTTTGGGTATTTTACCAACACCTAGGAAA
AATTCCTTTTATACAAAAGTCATAGGGATTTTTTCTTAAAAA
ACAAGGTCTTGGGCTAAAAATAAAGGTATTACTAACATAATTCGGGAA
CAGCCCCAATGCCAGATAATAACGGGAACCCGCCCCCCCCAAGCGGA
ATAAAAACAACCCTCACGCCCGGGAAAGGGGATATCGGCTTTGACCCCT
TCTCCCTTACACGAGGAAATAATTTCCGGCGAAAAACGGGTAGGGGTA
AAAATTTCAACAAAAATACAAGGCGCGAACTATAAAGTAAAACCCGGTG
GGGCTAAGAGGGGGGCAACCCCATGGCAAAGGGCCCCCAAGGGCCGAAA
ATCTCAAGGGCCACGGTTGTGGCTATTCCAAAAACACCCCCCAACAGG
AATAAAAATTTCCACTTAAGGAGG

>Sequence 819

GGTACAACGTGAATAGCTATTGGTCTTCAAGTGGGTTTAGATTGGTGAC
ATCAGTTTGATATCTCTTAAAGGAAATAAATATTCAAGAACTGATTATG
TTCTAACATGATTATATTCATGGTGTTACATAGGCCTCAATTTTTTCA
GAAAGATTTTGGAACAGGACTGTGAAGTGAGGCTTTTTAAAAAATTATT
TTATAAGCAGAGAACACAGCCTGATAACTTAGTCAAGGATATACTGTCTG
TCTCACTACTTTGGACTTATATGGCTTCAGATTAAGTCATCCAAGAAACA
TACATACATTCTAAATGGTATATATTGGGAATATATGCCCTTTAAAGA
ATCAGGTGAGAAATGCAATAACAATTAGACTAGACTGTTGCCCGTGTAG
GAGAATGTGTGGTCATCCTAG

>Sequence 820

GGTACTAGAATTAGTTCCAACACTACTGCTGGTGATAAACTCACCATCTACC
TTCACTTGTTTTCTCTTAATTTCTCAAGAAGTAATCAGGTGAATAAGAA
TCATCATCAGATAATATTCTCAAGATTCTTTAAGAAATTAATTTTTATC
TACTCTTAAATGATTGCACAATTATAGGATAGAAATTACTATCTGTGCT
CTAATTCAAATTGCTCTTAATGATCCTAGAGAGAAATGAATTACTAGAGA
TAAAGATAAAATTTGCTGTGGTTTGCATCTTTGTTTCTTTCCTTAAAA

Table 2

CTTAACAG
>Sequence 821
GGTACTGGAACAGACCTTACTTAAGCCCACCAAAGGCAAGGTTTGGGC
CTGCCACAGCGGATTTCAAAAAGACAAAGCAATGCAAGCCACGTGTTCAA
AATGCCCTAAGTGGCTATTCAGGTAATATATAAAAGTAAGACCAGGCTAA
TTAGTATACAATGGGGTAAACCAGAGAGCAGAAAGCCCTTCTTTAAATG
AGCCTACCACTGCTTGGCCTCAGTGTGAATTTAGACCCCATCTTCTGATA
TTTCAGGAGAAAAGTAAAAATCTAGATTTTTATCTAAAAATCTTTTAATTT
TAAACAGTCACCTGATTTT
>Sequence 822
CCCTTGAGCGGCCGCCGGGCAGGTACAGAGCATCTTAAGGTTGGAAGGA
CTCTTAGAGACCATAGTCCAGCCTCCCACTTGATACTGAAACACGTTTGT
GAATTCATGGCCGATGTCTAACTTCCCTCACCACCTTTCCGATATGGACA
GTTCTCATGCCAGAAGCAAAACCTTCTTTATTGTGCCTGTCCTCCCTTG
ACTGTCTATGCATATAATCAGCATCTTCCCACTAAGTGAAGGGCCCAGAC
TCGAGCACAGGAGCACAGCACCCCTTAAACTCAGAGGGGCTGCATTAC
ACCATCAGCAGGGAGATTACACTTGTGTCATTG
>Sequence 823
CCCTTAGCGGCCGCCGGGCAGGTACCAAGACTTTAGAGGGCAAAGAACA
GAGGATTCTTGAGAAAGGGGACTTGAAGGTGAAGAGATAAAGGCTGGTGC
TTCCAGGAGCGTGGGTCTCCTACGTTTGTGTTCTGGGAAGAATCTTGA
CTCAGGCGTGGGCAGCTGGATGCCTGGGTTCCTTAGGCTTCCTCCAGGCA
ATGTAGTTGCCTCTTTCTCTCCCGCGTACATAGTAAGTGTATGATAGAT
GTTTGATTTGTAAATTACAAATATAAATTATCACCCCATTTCCATTTAT
TTCTTGATATATCAAAATGTGTTGA
>Sequence 824
GGTACCCCATATTATAGTAGGGAGACTGAATCTTCAAAGTTACAGGGTGAA
TCAATGATAATGATCTTTGCAGCTTTCTGGAGTTAAAAAGCATCAAAATT
GGGAGATATTAGATGATGACATCTAAGTATTAATAAAGGAGATATTA
TGATGACTCTAGAAATGAACCTGAATAAGGACTACCGCAATGTGTGTGG
TGTGGGAAAGGACAGTTCTTTAATGGCTGGCTGACCCAGCCTCAATTT
CTTGAGCTTCGCCGACACGAGGTGACCATCTGCAATTACGAAGCATCTG
CCAACCCAGCAGACCATAG
>Sequence 825
GGTACCTCTCATGGCTTTTGGTTCCAGCAGTGAGGGCATTGGTGAGATC
AGTGGTAAACTGTGCAAGCTTTCTTTTATCATTAGGAAATGTGAAACGT
TGGACAAATTTTGAGTTTAAACAAGGACAAAAAGTTGAAAGAAAAGGCAC
AGTTAACAAAAAAGGGTGGCTAGATTTATCTTGGGTGATGGAGGAAATGA
GAGAGGAATGCTCTTGAAAGGTGGTCTGTGGATCTGTCTGAATAGAAAGA
GCACAGTAAGTATGCATTGCCGGAGAAAACGTCTTGAAGCTGCTGTCT
CATGTGTATGATGTGC
>Sequence 826
GGTACTCAACAAGCAGCTGACTTATGTTTTATTGGACATTGTGATACAGG
AACTGTTTCCAGAGCTCAATAAGGTACGCGGAAAGTCAACTCAGTTACC
TCTGTTTGGTGTGTATCACTTGCAGATGCTGTCTACCACTTTTCAGT
GACATCCTAGAAGCTTCTCTATTACCACAGTAAGTGGCTAACTAGATATG
ATCTTTCCTAATTTTCATGAGCATCTTTTCTGATATAAACCAGGGAG
GGAAAATAACAAAGTTGCTTCACTCTGAAGGAGTATCTCCTCTAGTACC
TGCCCGGCGGAC
>Sequence 827
GGTACATATATGAAAAGCCAACATTCTAAAGTAGAGGTTCACTTAATTTT
TTTTTTTTCAAGAGAGGCTTCTTGGTAGTTTCATCACACAGTGGTTTTA
TTAGGGGATGTAAGGATTACAGAAACATCGTATTTTTTAACATATAGTAT
TTTTGAATATGATTTGAATTAATATAGAAAAGTGCATTTTTCCAGTTT
TTTTAGGGAAAAAGGAGATACTTCACCAGGAGGATAAAAAAGGAACAAGAGG
GGAAGGGGAAATAAAAAATCCAGAAAGATGAAAAATTGTTGATGTAAGAT

Table 2

GGAGGCACATTNT

>Sequence 828

GGTACAAACAAGCTTTGTTAAACTAACCCTTGCCATCCTGGCTACTTTAC
CCAATTAACCACCCTAGCCCAGGACGTTTGCTTTATCACATGTTACACAGT
TTGCTATTCTTTGTTCAATCTTGTAAGTACTGACTGCAACTGCTTCTGTGGGT
CTCTGTTTCTTTATGAAGTTTCCCAGGCCATACAAAACCTTGTTAGCCT
ATCTTCTGTCAGTTTAATTGTGGAAGTCAGCCAGGCCCTTAAGAGGATGG
AGGAGAGTTTTTCCCACAGCAGTTCTGAATGGGATGAAGTAAAAATAAA
ATCTCCCCATTGCCACTACACCACCTCCTGATGAGTCTTGACGAGAAAAT
ACCGTTTAACTGTTTCTGCTTTTATTTTTTCTGATTATCATCCAGTTTT
ATATATTTCATATCTGGGTGCTTTGATAATTATATACATACTTTTTTGA
TATTATTACTTATTCTTTACATTGGAAAGGAAGTTGCTTTGTAATCTAC
ATTCCCTTTCCTCCTACATTTTTTTTAGTTTTTTTCATTTGGTTTCTAAT
TGAAACTAAAGGTAGACTGACTGTTAATTGAAAAGAGTTTCAGCTTTAGG
ACTTTAATTTTTTAAGCTTCTTTCAATGGTCCGGACCTAATTCGAATTG
CAGTATTGTCCTGCCCGGGCCGGCGTTTAAAGGGCAAATTCACACACT
GGCGGGCGGTATTAGTGGATCCT

>Sequence 829

ACTCACAAGCAATAACAGATTCATAGATCAGTTGACATTGGCTGGTCTCC
AGGACAGGAATGTGGCCAAAAGGTGCTTTGTATAGACGGGGGCACTGAA
TCTGTGCTCTCCCTGTTACCTACTTTTGCCAGTGAAATTTAAGTTTTAAA
ATACTTTCAGAATGTATTTTACTACTGCAAGTTTTTGGTCTTTAAAATG
TCAAGTAGCATCTCTCTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCA
GTTTTTTTTTTTTTTTAAATTTCCATATGGGCTAAAGAATCCAAATATTT
TAAAAATCTGGCTCTCTTTCTCTCTCATAAAGTGAAATTATTCCTCTTT
TTTGTTTTATGTAAGTGATATATTCTTAGTTTTTCTTGAAATCATTTGTA
ATGCTAACITTTGTTGTTTCAAATATCTTGGTGATTGCTTCATTATCTCTT
CAACAAAAAAAACCTTTAATTTGCCATTGAACTGTAGAAGTATGCCAT
GCTTTTATTAGAAGCAGTGCTCTGTGTTAACAACAAGAATGGTGTAATTA
GAATTGGGATGGGGATATTTACTGTATGACAACACATTTACAGGTCTGTA
ATGCAAGGATGCAATTTAAAAATGTGAAGTAATGATGGGTTTTGAAATAA
GCTTTAAATATATGGACTTGAGGGCTCCTGGGGAAGTATTTTTTACCTAG
ATAAAAGGGTT

>Sequence 830

ACAAGCCATTGAATAAGCCTCTTCCTTTTTTTTGTCAAACATTCCACAT
CCTTGTTGGATTCCCCTGCATTGTTTGTATATAACATTTGATATTTGT
TGAGCTTGATATGAACATAATTTCTTTAGAGGTAGTCACTGTTCTCT
CCAGTATGACCCAGGTTTCTTGACTCTGAGTAATGCACCTTCTATAACTA
TCTAAATTTCTATTGAAGCTTTTGGATTATGAGTATGCTGACTTTTCAC
GATTGGCTGGTGCAATGTTTAGACTTAAATGTCATATCCTTCATGTCTCAA
AGCCAAAATAGTAACATCTCATCTCAGAACAGAGCTGTGACCACATGCCA
ATATATGTGTCACAAAGTCTACATATGTTACATTCTTGGAAGTCTCCTT
AAATGTTTCACAAAATGTCAACAAGCTTGTTTGTTATTGATATTTCCGA
GAATGGGCACATTTAAGACAGTAAACGGGAAAGGTGGTGAAGATGCTATA
AGAAGATGCTGTATCTTGAGAATTGAAAAATGAGAATCTGACATGGTTTG
GAAAATCATGAAAGGTTTATATAAAGGATGCATGTGTAGGAGCCATTTAA
ATTATAACAATATGTGCCCTTCAGCGTTTAAATCTTATGAAGGGTTA
AGAGATAAGTCTTTGGAAGTGGACAAAAGGATTTGAATTTAGGTTCTGTG
GATAATTAG

>Sequence 831

CCCTTGAGCGGCCGCCCCGGGCAGGTACGCGGGCTGGAAAACCTGAACGTGA
AGTCACCACTAGGCAAGCTGCCTGTAATTGAGCTTGCTTGTATATGACCA
ATCAACCTTTGCTTGTGTAAGGGTTAGTTATCTAGTTTCTTCTTTTCTT
TTTTGGAATTTGGTCTTTTAAAGGTCTTGATAATCTTTCTAGTCTAGAGCA
TGTGAACAGAACAGAAGGAAAATCAGGACTCAGTTTACTTAATTTAAGCA
AGCATTGGTTGCTGCAGTTCAGGGGAGGTTAAAGTTGCTGGGCTCCACTC

Table 2

TCTTATTAGCATGGATGCTTAAGAACTTCAGGGTTTGGAGGTCAGCTGAA
CAGCTGTTTTTGCACCTCCCTTGTGTTTAGTAGCTGAGTTCTATAAAAAA
ATACCACTCGGGTAAATGCTAATATACTTAAGCCATTTTTTACTTGATAA
CATGCATAAAAAAGATATTAGGGCTTTCATGGCTTCTGGCCCTTTTGGCTA
AAATCAAAGGTAAAAAAGAAATGCCATGGTTCAAAAAAAAAAAAAAAAAA
GTACTTTGGCGGGAACCACTAGGGCAATCCCAAAATTGCCGCGGT
TTTTATGGATCCGACTTGGGTACAACTTGGCGTAATAAGGGCAAACTG
GTCCCGGGGAAAAATGTTTCGCTTCAAAATCCCAACAATATCGAACCGG
AACTTAAAGGTAAAACCTGGGGCCCCAAG

>Sequence 832

GGTACCCTAGGCAGGGACAGTCAAGAAACTTCATGGATCTGTAGTGTA
AGCTAGGGAGAAAGAGGAAGAGATCCTGTTTGAATTTCTGTAAGTAGCGT
ATCTCCAGATAATGCATGAACAGCCAGTAAAGATGAACGCAGATTATTGA
TGGAAAGAACACACATGGAGAAGAGAAAAAGCAAGTCCACAGAGCTTTTT
AACATACACTCCCTCACCCCTACCCNCAGCTTAGAAGGGCAGGAACCTGC
TGTCACAAAACAGGAAATATAGGAAATACCAGCTGAGAACTATCCACTTG
ACGTCCATGAGCCAGCTGCCCCCTCTCACCTCACTCTATTTTAAAGTCAG
TGACACACAATCATGCTTTCCTTTTTTGCACCTGAAGGAGTGATGTCAC
CCAGACTGAGTCTTATTAGAGGGGATGATGGAGTGATTTTATGACCTGG
GAATGGTCTAAACCTTTTTTGGCTTAGGCTAATCATTGGATCCTTCAAGG
AAATTGGATATTTGAATGCACATCCCAACCCGGGGTCTTATCAATGAA
CCCTTACCTTTAAGGCACTTTGTTGGTTGAAAGGCGGGACAATGAAGCCC
AGAATGACTTCTGGTTCCTCCCTTTTGCAATAAAAGGTTGACCCAAAGCT
TCCACATAAAATGTCCCTGCCCGGCGGCCGTTTCAAAGGCGAATTCTCA
CCAATGGCGGCTTTCTTTGTACCCC

>Sequence 833

ACTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGTCAAGTAGAAATCAAACAGT
CCTAATGGAGTTCATATCTTATGGCATTATAGAAAGGCTTAGTTATGAA
CTATCTGTATTGTTACTATTACATTGCCTGGCTCATATATATAAAGCA
TTAGAGAGACTGTTCCAATAACTCTCATTTAATTGGTGAAAAAATTAAA
TATTGGTTAGATACTTACCTAAATATTACTAGTTAAATTCAAAGTAAAT
GAGTCTGTATCTTTAAACTACTTGGCAGTAATAATTTTAAAGTAGAT
TTTTATTGCTTTTCTGAACTAAGTGTTCATACAACACAGGTAGTTT
TATTGTGCCTGGAATTAAGGAGTGAGACACATTTGTAAATGTTTCAAA
TCAACGCTGTCCCATTTTAAATCTCACAAAGTTTTCTTCATGATTAAAC
ACAATTCACAAAATAAGAAATGGTATTTGGTCAATCTCTGAGTTCAATCT
GTGCTCTAGTAAATATAACTTGTGAGGAAAAAGTAAAAAGGTCAAGAGTC
TAATTCATTTTTCAGTTTTTAAACTATATTTTAAAAAAGAATGATTGGG
GTAAAAATAAAGAN

>Sequence 834

GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGGTTTTTTTATCTGACCAC
TTCCAGGAACAAAGCCAGGGCTCTCTGGGCACCTGAGTATCCATTCTCTT
TGATCATCCATTCCATGTCCAGAACACATTCACATCCATGCTTATAGTT
CCTCATTGCCTGAAGCCTGCTGGGTGGGGCAGTATGAATACTTGCCCT
CATCATCCCCATTTACAGATGCATAAACAGAGGCCAGTCAGTATGCCTG
CAGACTGTGGATAGAGCCGAAGCCTCAGGTTAGGCAGCTTGCATCCAGC
TGTGAGTCCCAGCTAGGGGAAGTGAAGTCAAGCCTCCATCACTCCGTGTCTC
GGTTTTCTGACCTCTCAGGTGGGTATCATGATGCTGGCTTTGGAGGGTAG
CTGTGAGTATTAAATTACGCTGATGCAGGGCAGGTGAGCCCCCAAATTG
GGGTTTAGCTTGCAGAGTTCTTGGCTTTGCCTAGGAAATAATTCAAGGG
CTTCAAGGGCTAGCCAGTGGTGTAGCAACTTTCTTGAAGTGGCAGTGT

>Sequence 835

GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTAATTCAATGGAAG
AAAAGTCCAGCTTAATACTTAAATGGAGAAAGAAGGAAGCAGTATAAAT
TTGTGGAGACTCCAATCACATGTCCTCACTCTGCTACCCTGGGCCCCAA
ATAAGGGAGGAGACACTCAGAGCCAGGTGTTTCCCTTGATGGGAATGTGA

Table 2

TCAGGTGCGACATGGGCTCACAGCCTCACTGAGGCTGGATCTTTTTTTTC
TGTTCCCTCTGAGTCATGGAAGTGTTCAAAGGAATCATGAGGGTATTTTC
GTTACTTTACTTACTTTACCCCATCACAATCAGTGCACTTTCCTAGAAGG
GAATTTTATTTTGATTATCGGAAATTTACAGCTTCTCCTTCTGCAACTTT
AATTTTCTTCTCCTGTCTTACTATTTTCTTATTACAAATCTCTTTCT
GGGTGTGTTGTGGGAATTCCTTAATCTATTTTCCCGTGGCCTCTCAATCC
TCTTAATTAATTATTGTTCCATTGTTTCGATCGTCTGGGTGGCATTGTGT
GTTTTTACCTGGCCCGAGGCGGCCTTCAAAGGCCGAATTCACACAC
ACTGGCTGGACTCTTATATATGGTACCAATCTCGATACCTNGCT

>Sequence 836

GGTACTTAGCAAAGAGACTTACACATTAGTGAAAAATCTAAAATCAGCCT
TACGTGGGATCTGCCCCAAGTATTATTTGCAAAGTATCATTTTCAGTTT
TAACTTTTAGGGGGAGCAGGGTAGGCTGGGGTGACACACACAAATCTAGG
CAGGCAGAGAGCTTGCTTTCCTCAGCTTCTTACCCTTAGTAAGACCACTT
TAGTAGGACACTTAAGTATTTTCAGTCAGCGGATTGAATCTGACTTCTTG
GATGCATCTGTATCAAACATACCATTAGATGTGTTACAGAACTGAGCAG
CATATCATTAGATGTGTTACAGAACTGAGTCCTACTTACAATAATTAATT
TAATTTCAATAGCGATCCCCACCAATTTATGTCCTAGGCATCTACACAATT
GGTCTCTGAGCGAAAACACAGCCTTATCTGCAATAAAAGCCTCTGCTNTG
CTTGGCATGTTTTTACAATCCCGCGC

>Sequence 837

ACTTTTTTTTTTTTTTTTTTTTTTTTGGCAAACTTAATAGGTTTTCTTAG
CTTGACAACTCATTCTCTATATTCACGAACATCTCCTGACTTGTTCTTC
AGTGGAGATACCCTTTCTAGCCAGAGTTGGCAAAGTAGCAATAGCATG
CATTGGCTTGTTGAGAGGCCCTGGGTGAGCCTTTGTTGCATAAAGTAGG
AGGCTGTATTGTCTTGGTAGCATATGCCTTCATTATAAGTTTGCTCT
TTGAAAAGAAATATTCAAAGACCAACACAAAAGAGAATTTCCAGATCCAA
GAGAGTGATGTAGAAACAGTGACAAGTTAGAAAATCAACTTAGGTATCA
GATAGCAGCCACAAAATATGTTCTGAGGAAAAATTCATAGCAATTTATAA
CAGCTGAGAAAAAGAGGGAGGATGCGGGAAGGTAGATTTTGTGAGAACTT
ACTAGACTAAGGATNTATTGCATATTTTTTACTAATTAATGTTGGGGAT
GTCAGACGTGGTTGAAAATAATTAAGTCTGGTTAAATAAGGCTTTTTTC
ACCTAGCTTACCTA

>Sequence 838

ACTACAAAAATAATGAAGCCAGCTAATTACCATCAGGTTACAACTTTACA
AAGAAAGTGAAGCAGCAAAGAGCTGAAGCAGAAATGACATAGGAAAACAGC
AGCAAAGTCCTTGAGTCCCAACAGTCCACCTCAAAGACAAACATACTAAA
GAACAAAGGCCCTAATCCACCTCCTCACCCGCGTACTTTNTTTTTTTTT
TTTTTTTTTTTCCAGTTTCTGTTTCAAATTTCTTTATTATACATCATGGT
TGCACAATTTGAGGCTGGTTAAATACAATTGGTTTTCAAATCTCTTTGA
ATATTTTCTGGCTTATTACATGCAAATGACCATGAAAATATTTGGCATT
TAAAATTCTGAACTCTGAATAGGCACTTGCATGAAGGAAAACATTACCA
TTCATAGATATCCACATGTAGAACAGATGCTCCAGCACATGGTGGTACC

>Sequence 839

GGTACGGACAAGGGGGCGACTGGCATGTGGTTTGTCTTCTGGTCTTGTAGT
CGGTTTGGAAATTTCTAAGTCAGGGTGGGGTGGGGGACTGTGCACGAGT
CATGTGCAGACTGGAACCCATCTCCCCCTCGGTCTGCAAGTTAAAAACAAT
TGGGTTGTCTTCTCAGCATCTGCCAATGTCTCTTACTCAATCTTGGATC
AAAAGGGCGTTGGAGGAGGAGGCTGGGAGGGGAAATCCAGACAGTTCTCCG
CCTCTGACATCAGGTCCAGCTGTTAGCATCGTGCTGTGGGTCCCTGAACA
AGAAGCAAAGTCAGGACTGGTTTGGCCAGGTAGGTGAGGATCCAGTGTTG
GGTGATTCTGATCCATGCAGCCCTTAGAGGCGACACAGACGTGAAGTGA
CATTCTAGGAAGAAAGAGCCGACTGCCGGGTGACCTGTCTAGTTCACATC
CACTACCAATTTCCCTCCTCGTTCCTATTCTTAGAAAATAAGACTCTGACG
CTCTCTTTTATACAGGCTAGTCCCCTATAGGCATGTCATGGTGATTATTT
GCAATCCTCCTGACTTTCCTAAGAAGAGATCAGACTTAGCAGGGTTAGTC

Table 2

C

>Sequence 840

GGTACAAATAAATGTATCTTGGGTAAAGTGCTATAAAGGAAAAGAACAGG
TTCAATGGAAGGAAAAATTAGAAATTGTTGATACATGAATGGAAGTAAATG
ACCCGGAAGTTCCAACTCTAAATCTCTGTCTCATTTCACCTCTTTGTAAAT
AATCATTGCTATTATGTTAAATATCACAAGTGTCTCATTCTTGTGTTAC
CCACTACATTCTAAGCTTGGTGCTGACATCTTTGTATTTATTATATAAAA
TTCTCAAAATTAAGCTGCCCCGTTAGGCTTTCTTATCACTTATTTCAAATG
CAAAAATAAGGTCCAGGGAAGATAATTATGTAAGTGTTCATGATTGGAG
AGCTAATAAGTGTCAGAAATGAATTGAACCAAAGTTGGTGTCAGAAAGCC
TCTGTTTTAAGCAAAAGGGAAAAAAATTCTCATTAACTCCAAGGATTAT
CATTAGGAGTCCAACAGGGTTCCCAATTTGGGAAGTACTATTTTCATTATC
ATATGGCAAATGGTCCACTATGTTAGATGAGAAGGCAAAAAAAAAAAAAA
AAAAAAAGG

>Sequence 841

GGTACACTTAAAAATGTATGTGCTGTTCTAATGCTACTTATTATTATTC
CTTCCTTTGTAGAATGTATCNCCTAAAGTGTTAATCCTGACTATAAC
AATTATTTGTTAACTATTAAAGGGGTAATTATACTCTAAGCTTCCAGTTT
TCAGTTAAAAACAAAAATGATTAATATGCCTATACAGAACTTTCTCCAGCA
CTTGGTAAGTATTTTTTAAAGTGAAGTCTATTCAGACTGCAACCAGTAAA
CTATTTATGCTTATAATTTTTCTCAGCATGGATTTCTGTTCTTTGTTGC
ATTGTTTGTGTTATTTTATGTGATCTTTTTAGCTACAAGGTGGGAAAA
TGACAGTGGTTTAGAGATAAGAAGCACATGAATGGAAAGTAAATATGTGG
AGATTTTTGGCCACTCTGTAACTACTATCTGAAGTAGTTTTAAATATTT
TTTAGTTGGTAAGAGGATGTACCTGGCCGGGCGGGCCGTCGAAAGGG

>Sequence 842

GGTACAGTGGCGTGATCATAGCTCACTGCAACCTCCACCTCACAGGCTCA
AGTGATCCTCCACACAGCTTCCAAATAGCTGGGACCACAGGTGCAAGC
CACCACACTTATTAATGTAGATTTCTTTGTAGATGTAGATTTCTTTTAC
AAAGTGACAGCTTTTCAGAGCTAGTCCTATGTCTGCAGTTTCTCAGAATA
ACCAGCTCAAAATATGCCAGAGAAGTATATTTTGGGGTGCCATATTCTAG
TCTCCTCCAGTCATATTTTGGGGTGGTGTGCTGAGCCCCAACAAAGATA
GGGTTCATTTTGAAAATTGCTCTTCCAGTCCCACTGTTTCATCTCATAAG
CCAGGAATCACCACCTGTTGATTTCTAGGCATCTTCTTGCTCAGGGGA
GTAGATGTTTGGTGACTAGAAATGCAGGGAGGAGAAAAGGAAGGCTTGG
TGATGTCAAGGATTTTTTAAAGCCAACCTATCTCACTGTGGTCTCTTAATA
GTCACCTCTGGGCTGCTCATTTCATGAAGCTTAAAGCTGATAACTTGGG
GGACAAAAGGGTTTGGGTAACAAATTAATTTTGTCTCCGGAAATACCAA
CCATACTTTTCTGGCTGGCTTGAGGAAAATTTAACTGGGGATTAATTCTG
GCTAATTGGTTGGGAGCCCCCANTAGATTTTACTACAATAAAGAGGTCTG
TCCCGGGGGCCGCTAAAAAG

>Sequence 843

GGTACTTTTTTTTTTTTTTTTTTGCCTATTAATTGATTAGGAAAAATAG
GTAGACCCTGAGTGAAAGTAGAAAAGAACCATTCTGGTAAAAATTCTGAA
AGTAGAAAAGAACCCTTAGCTTTAAAGGTATGTCTTAATAGAGCAGTGCT
AAGACAGGTGGTTAGGTATGTGAATGCATGCCACTTAGAAAAGAATATGA
AGGAGAAGGGACCAAGAAGGCAGATACATTGCCCTGATAAAGAAGTCAT
TTTTCTCTACCTTTACATAAATATCAGCCACTAAAAATCTAGGAGCACA
AATAATGAAAGCGAACCTGTTCGCTCTGTTTGTGAAAGGCTCATTAAAT
ACCTGCCCGGGCGGGCGGTCGAAAGGG

>Sequence 844

ACAAGAGAACGGACGGCACTTACTGAGCCCATCGCAAATGTCAGGCTCTG
TGCTATACTTACATATCCCATATCTTCAAGACCCCTCAAGACCCACAA
AGTAACACAAAGCAGGAACTAACTCAGATTTACTTGCCAAAGGTCACAC
AGTTAATACATGGTGAATCAGGACTCAAAATCAGGCCTGTGTGACTCCA
AAGTCCAGTGCTCTCCACTTTACCAGGTAACCTTCATAATACCGGATT

Table 2

GGAAATCAAACCTGTCACTTACTTTCTATGTCCCTGAGTGAGTCACAACT
TCTCTCAACCAGCTTTTTTCATGTACCTTGGGCGCGACCAACGCTA

>Sequence 845

GGTACCAGGAAATTGGTTTGATTGCCATAGGCTAACCTTGGACCAATCAC
TGTGGCCAAATACATGAGGATCCTTATTGGCTCCTTCTACTAGCAACAGA
TGGTTTAGAGAACAGTGTATCACAGAGAAATGGGGATCACTATTATAGGC
AGATTGAATAATAAATGTTCACTCTACTACTCAATAAATATTTGTTGAAC
AAATCAAAGCTGATCCCTTTTTTCAAAATTTTAATGTGACTCTTAGGGG
ATGGTGGATCCAGGAGAGAAGATTAGTGCCACACTGAAAAGAGAATTGG
TGAGGAAGCTCTCAACTCCTTACAGAAAACCAAGTGTGAGAAGAGAGAAA
TAGAGGAAAAGTTGCACAACTCTTCAACCAAGACCACCTAGTGATATAT
AAGGGATATGTTGATGATCCTCGAAACACTGATAATGCCTGGATGGAAAC
AGAAGCTGGGAACTACCATGACGAAACAGGTGAGATAATGGATAATCTTA
TGCTAGAAGCTGGAAAAGATGCTGGAAAAGGTGAAATGGGTGGACATCAA
TGATTAACCGGAACCTTTATTGCCAGTCACTCTCAATTCAATAAACTTGT
GGTTGAGAAAACGAGATGCACCTGGAGCGAGGACTTCTGAAGCTTACTGC
CTTGCGTGGAACCTGATGGTCTCCGTGTAAGCCAAAGCCCCCGAAGAGCC
TATTCTTGAAAAAAGG

>Sequence 846

ACTTTACTTATTTATTTATTTATTTATTTGTTTTACTATTTACAAAACAA
AATGTAGCTTTCTTAAATTTGTTAGTTAAATGTTTTCTTTGTTTTCCCA
ATAAAATGTAAAGTTTAATATGTGATGGCTAAACTCCTAAGGGGATAAGG
AGGCGCTAGGAGAATAGGCAGGTTGGAAGGGTAGTCGGGACTTGTCCA
GATTCTGTGTGGTAGTCTGGGTAGTCTGTATATTTACCATATGGGCTAC
AAGACA
CACACACCTTGTGAGCATTTATTAATTCGCAGTTGATGGTGCATAGTTT
CGGGAGTGGGTAAAGGATATGTTACTTTTGTAAAGTACCTCGGCCGCGACC
ACACCTAAGGGC

>Sequence 847

GGTACTATGGTGTGTGTGTGTATGTGTGTGGTGTGTGTGTGTTTTAAGTT
TAGCCTTTTGTTTTTGTTTTGGTTGGCAGTAACCGATTTTAATGACTAG
CTTTTAAAAATACAGTACTGATCATTCTATTTCCCTCTATTGATCCCC
ACCTCCAAATATCTCATCAACAACCCACTAATCACCACCCAACAATGACT
AATCAAACCTAACCTCTAAACAAATGATAACCATACACAACCTAAAGGAC
GAACCTGATCTCCTATACTAGGATCCTTAATCATTTTTTATTGCCACAAC
AAACCTCTATGGACTTCATGGCTTATTTATTTACACCATCCACCCCAACT
ATTTATTAACCCCTAACCATGGTCCATTCCCCTTATAAATCGGTCTGCAG
AAATATTTTGGTTTTCCGTTCTAATATTAATAAATCCCTAATCCCAT
TCATAATAATAAGGTAAATCTTCATCTCTTAAACCTCTGGTTGTTTA
TAATTGAGAACTATACTTCTACTTATTTAACCAATAATCCTTGTGCTAC
TTGCCCGTGCTGTCACTTTTAAAGGGCTAATTTCAACACTACTTGGCTGA
CCTATCCTTGTGAAACCGAGACTTGTTTACCATACTTTGGCGTTAATAA
TTGGTATAAACTGATTTCTTTGTGAATATTGTAATCACCATAATAATTTT
CAAAAATACTATCAAGCCTGGAATCTATAAGTTATAAATCACTGTGGTGT
T

>Sequence 378

TCITTCCTCATATCTATGTTATTTAATATTAATTTCTTTTAATTGTA
TTTATTTATTTATGTATTAATTATTATCATTCTATTCTTAATATATAAT
TCANNCCCCNACATGGTTTATCTCTGAGGCGGCTTCCGCCCGGGCAGGTA
CCAGGTGGTGAAACCAACTGCTGAACGCACAGCCTACCTCCTGTATTACC
GCCGAGTGGACCTGCTGTAACCCCTGTGTGCGCTGTGTGTGCGCCAGTG
CCCGCTTTGTAGGACACCACTTACACTCACTTCCCGCCTCTCTTTAGTG
GCTCTTTAGAGAGAACTCTTTCTCCCTTTGCAAAAATGGGGCTTAGAAT
TGAAACAGGAGTATCGCCTTTGTGGGTTTCGATGCAACAAACACGAGCTT
TCTTGTGACTTCTAACTTTTCAAATCAAAATCATTTGGTTGAAACAGAC
TGTTGCTTGATTTTAGAAAATACACAAAACCCATATTTCTGAAATAATG

Table 2

CTGATTCCTGAGATAAGAAAAGTGGATTTGATCCCCAGTCTCATTGCTTAG
TAGAATAAAATCCTGCACCAGCAACAACACTTGTAAATTTGTGAAAAATGAA
TTTTAATTTTCTTTAAAAAAGAAATTTTTTAAACCATCACACTTTTTT
TCCCTACCTTTAGATTTTGATAAATGATAAAAATGAGCCCATTATCAAA
AGAAAAAATGTGTTTTACTCCAAAATGGAATAATCTAAATTTCAAATAAT
GTACCCTGG

>Sequence 379

CGCTGTCTCCATATGTGCTCATGTGTGGTATCTTACGTTACTTGTAGTA
TATAGCTCACTTTCGCGCTCGGTAGTATGGTATCGTTTGGTCAACTTTTA
TTCTCTTGATTTGTATTTATCNANTNNCNGGGGATGGTGTCTAGAG
GCGGCTACCGAGGNGCCGGCGAGGGACTGCTAGCCAGCCAATAAAATAT
AAACTCCATTTGTCTTAGTTATATAGAAGTGTGTTCCAGCTTAGAAAAA
GTCAAACCAATGACTTGTAGAACAATCTACTCTCATTTTTTATTACGCT
CTAGAACATGGAAGCTTTAAAAGTGAATTGGCTAAATAGCCAAGACCTTC
TGAAAGTTAACATCTTAATGATTAACCAAGTACGACACAACCGAAG
CGTAGAGTCACACTTGCAACAAAAGGTTACAATATTGTAATGGGCTCTGT
CCGTTCTGCTTGTCCAGCTGGACCATCTATTTATCCTCCTCCTCTGAG
CTGTCAATTAATTGCTCATAACAGTAGAGATCAGTTGTCTCTGGTTGCAA
ATCTAACATATATTTATGCAATGTAGGGTGTCTCCATGCATGATTACAG
CTGGGTTTCTCTACGTGTTCTTGATGATCTGCAACAAGACATACCTCGAC
CGGGCCACCGGCCCTTATATTATGGAATCTTTGCTTTTTGGCCAGAGGT
CTTTGCTTTTTTCAGGACACAAGGGCTTTTGACAGGTAATACACCTAACG
TTGCAGTGACGGTGGT

>Sequence 380

TCGTTCTTTTTTATCTTCATTAAGTTTTCTTTTATACTAGCTATTGTA
ATATTTTATTTATTGTCTTATAAAATTATAATTTATTTACTATTANN
ATNNNTNTTGTGANATTGTCTACTGAGGCGGGCTCCGAGGTACGTTAGCT
CATTTTCCCTTAAGCGGGTGTGACGTGCTTGAATTTGCAACGCTCAAAC
TTCCAACACTTGGTATACACTTGTAACCCAGCTTTGTTAATGAGACACGC
ATCAAAATCAGATGAACAATTGACGGCTGTTTTGCAGTCAGCAGTTGGGT
TAGGACAGTTGTAGCACTGCAGGCTATGTCCTGAATGGCAGAATGACAGT
TCGGACGAGCTAGTAATCTGAACAGGACAGAACTCTCTTTGTATTCCCTA
TTGTGATTGTTACAGAACTACTTGTGTAGTAGGTTTAACTACTACACC
AATTGGTGGCTAAAGACTGTCGTCTCCTATTTATCCTTTTTTAGCCTCGA
GCCCCGTTATTCCCGCTTCTTGTCTCGGGCTGGCCGTTCTAGAACTTAG
TGGAATTCCTTGGGTCTGCTTGAATTTTATTAACAAGGCTTATTCGATAC
CCAGTTCAACTTTTGGGGGGGGCTCGGGCACCCAGCTTTTGTAAACCTT
TAACTGAGGGGTTAATTAGCTCTGCTTGTGTAATTAATGTTTATAGAAT
GTACCCTGGGTGAAAATGTTATTCTTTTACAATTTACATTACAACATACG
ATCCTGGCAGCTTAAAGTTTAAAGTCTCTGGGT

>Sequence 381

TTAGATGGCTCACCGCGGTGGCGGCCGAGGTACACCATGTGAAGACTGGA
CTTAAACAGCTACACCACCAGATGCCGAGAGAGAGGCTGGAACATAGCCT
TCCCTTTGGAGGTAGCCTGGCCCGTGGGCACTGTGATCTCAGACTTCCA
GCCTTCAGAACTGTGAGACAATATTTATTGTTTAAGCCACTTATTTTT
GGTACCTGCCCG

>Sequence 382

CCTCTCCTCTCCTTACTTTATATTATCATTACTCTATTATTATATCTTTA
TACTCTTTATATATTTATATTTGTATTATTTCTTATAATCTTTTTACTGC
TATTTTATTACNANCAGGGTGTGCTCGTAGCTCNCTTCGCGGNGGCGGC
CGAGGTACTTTTTTTTGTGTGTTTTTTTTTGTAGACGGAGTTTCACTCT
TGTGGCCCAAGGCTGGAGTGCAACGACACGATCTCAGCTCACTGCAGGGTT
TGCCTCCTAGGTTCAAGCTATTCTCCCTCCTCAGCTCCTCAAGTAGCTGG
GATTACAGGCATGCACCACCACGCCCCGCAATGTTTTTTTTTGGATGTTA
GTAGACGTGGAGTTTCTCCATGTTGGCCAGGCTGGTCTCAAACCTCTGAC
CTTAGGGGATCCACCTGTCTCAGCCTCCCAAAGTGTCTGGGATTATAGGCA

Table 2

TGAGCCATAACGCCCCGGCGGCAATAATTGTAAACAGACTACATGAGTAAT
TGCATAAATGGACGATGTCTTTCTCTACTTTTAAATTTCCAATGACTCA
TTATTTATAAAATGATCTCTTTTAAATGATCAGTTCCTACATTTTATT
CCTTAGAAGCCTCTTTCCCTTTTTTTTTCATCTGTCCCAAAATTTTGA
CACCTTTCTTAAATTCAGTTATTAAGCCACTTTTCTGAGTTTTTTTCATA
ATAACACCCTTTTACGGACCATGTTAATN
>Sequence 383
ACCCCTCTCTCTGTTCTTTATTAATTCATGCTAAATTTACTTATCGT
GTACATAGGTCTTAATCTAAATTAACGTGCGATCCCCACATATCTAATT
CTTCNNNNNNNNAAGGGATGTGCTCCTCGCGGGCTCCGAGTACTCCAGNC
CCCANATTCGGGTGTGGGACACGGCTCTCCATCTTCTTCTTGGCTTTAC
AGGTTCCCAGGTCAAGAGCTTCACCCATAATTAAGAGCTTCTGAGGATGA
TCGATAAATAAACACACCTCCTTAACCATCCTTGGGCTTCATGGGGGT
GGCATTGAGGATCCCTACAACAGGCCCTGTGCGCTTCCAAAGCGCGT
TTGGAACCTTCCTCAAATAAGAACAAAGGACACACATTGGTGTGAGGGTAC
GAAGATCATTGAGTTTCCATATGCTCAAAGGTTTTTCCACTATTCACACT
CTTGTGGCGGTAACTTTTTCATATTAACCCCCAAATGTCACCCCAAT
CCTATTTCTTCCAAGCTTCTTTCTGGCCCATCTTTTCTTGAATCTG
AGACAAGTCTGATCCAAGTTTTCGGCCGGTCTAAAACTAATGGGGACCC
CCCGGGGCTGGAAGGAATTTCCAATATCAAACCTTTATCTGATACCCGTCC
AACCTCCAAGGGGGGGCCCGGTACCCCAACTTTTGTTCCTTTTATG
AAGGGGTAAATTTGCGCGCTTGCCGTAATAATGGGCATAGCTGGGTCTT
TGTGAAAATTCG
>Sequence 384
AGACTGCAGGAGATGTGGGCCGTGCCAAAGAGATGGATGAGACTGTTGCT
GAGTTCATCAAGAGGACCATCTTGAAAATCCCCATGAATGAACTGACAAC
AATCCTGAAGGCCTGGGATTTTTGTCTGAAAATCAACTGCAGACTGTAA
ATTTCCGACAGAGAAAGGAATCTGTAGTTCAGCACTTGATCCATCTGTGT
GAGGAAAAGCGTGCAAGTATCAGTATGCTGCGCTGTAGACATCATTTA
TATGCAATTTTCATCAGCACCAGAAAGTTGGGATGTTTTTCAGATGAGTA
AAGGACCAGGTGAAGATGTTGACCTTTTGTATGAAACAATTTAAAAAT
TCGTTCAAGAAAATTTCTCAGAGAGCATTAAAAAATGTGACAGTCAGCTT
CAGAGAACTGAGGAGAATGCAGTCTGGATTTCCAATTGGCTGGGGAACA
CAGTACCCT
>Sequence 385
TACGCGTACCTACCGTGTGCTGTCTATATACTTGTACTATCTANTTA
CTAACTAGTCTCGTCTTCTANCACTCTCTCTTCAACTACTACTTATCT
ATTATCTCGTATTATATATCTCATATTATNGATACTATCATTATAATTT
AATATAANAAGTATCCGTTGTGCTTCTACGCCGGGCGTGCCGGNAGCAGC
CGAGGTACTCCGTCTCAGAGGAGGGATGCAAACTCTTCTGTAAGACACTCA
CTGGCAAGACCATCACCTTGAGGTGAGGCCAGTGACACTATCGAGAAC
GTCAAAGCAAAGATCCAAGACAAGGAAGGCATTCTCCTGACCAGCAGAG
GTTGATCTTTGCCGGAAGCAGCTGGAAGATGGGCGCACCTGTCTGACT
ACAACATCCAGAAAGAGTCTACCCTGCACCTGGTGCTCCGTCTCAGAGGT
GGGATGCAGATCTTTGTGAAGACCCTGACTGGTAAGA
>Sequence 386
CAGTGTGGGCCCTTTTGAAGTTCGCGGTGCGCCGGGCGAGGTAATCCCTGAT
AAAGGGGAATTTCCATGCCGTCTACAGGGATGACCTGAAGAAATTGCTAG
AGACCGAGTGTCTCAGTATATCAGGAAAAAGGGTGCAGACGTCTGGTTC
AAAGAGTTGGATATCAACACTGATGGTGCAGTTAACTTCCAGGAGTCTC
ATTCTGGTGATAAAGATGGCGGTGGCAGCCCAAAAAAGCCATGAAGA
AAGCCACAAAGAGTAGCTGAGTTACTGGGCCCAGAGGCTGGGCCCTGGA
CATGTACTCTCAGAATGTTTGTATATGCTTCTTGCAATGCATATTTTTT
AATCTCAAACGTTTCAATAAAACCATTTTTTCAGATATAAAGAGAATTACT
TCAAATCGAGTAATTCAGAAAACTCAAGATTTAAGTTAAAAAGTGGTTT
GGACTTGGGAACAGGACTTTATACCTCTTTTACTGTAACAAGTACCT

Table 2

>Sequence 387

AACGAATGTGTCCGTAATTGATGTCCACTTCNCACCGN
CCAGCCGANNTTGATTCTTCAGTCCTNAGCGATGGAGCCCAGGGTCCCTT
GTTATTGTCCCCTTTCTCTCTCAAATGCTTGGCTTGTNTTCAAGAGAAC
CTGTCTCGGTGGTCATTGCTCCATCGATTGGATCCAGTCTTCTTCAAAN
CATTGTTCAAGGCACTTTAANGCTAGCCTGAAANCGCTTGAATCCCTTGC
TAATACTATTCCAGTGTGATCTGAGAGGGTGGTACCCTCTNGCCCGCCTC
TANGAACTACNGTGGATCCCGCCNGAGGCTGCATTGGAATTCNGAATATC
NANAGCTTATTNGAGTACCCCGCNGACACCTCGACGGGNGCGGGCCTCC
NGGTACTCCANGCTTATTNGTTACACCTTATAAGTNGACTGAGTTAACT
TNGTCGCACCNTATAGGCNGTCANTACAATAGTGTCAATACGGCTTGTNT
TGCCTCNGTTGTGAGAAGTTNGATTATCCTGCGTCAACTAATTGCCACA
ACATACAATACCGACGCCCCGCGCAGGCTATAANANGTCGTTAATAGCTC
TGGTTGCTNGCGTNATCTCGAGGTGAGGCTAAACCTCAACAACCTAAATT
TGCGGNTCGCGCGCTCAACTGGGCGTGCTCTAACACATGACAGGAGAAAC
CCTCGTCGGTCGCCACACTTGGCGATTAAATTGAGATTCTNGGCCCAACTG
CTCGCCGGTGGAGAGAGCGCGGTTNACACTATTTAGAGGCGCTTAGTTC
TCGCTTTCCTTCGACTCAATNTACCTTCCCTTGCCTTCAGGGCGTATCA
CGCTTCGCGGCCAAGACCGTAATCATACTCTCATCTCAAAAGGGCGGGTG
ATACCGCGTTATTTCAACANTATATCAGTGGGATAACCGCAAGTAAATAA
CACTTTGAGCACAACAGGCCCGCACAAAGGCCCATACCCGGGAAAAGCGG
CCCCTCCTTTGCTTGTCTCTAAAGGTTGCCCCCTCTGCGCACGAATT
AAAATATTGCGACCTCTAAGTACAAGGCG

>Sequence 388

CCGCGCTTTACACATTGAGTGCTCCTTTCCCNCCAGNCGAGNA
CCCCAGGGAGAGATCAAAAATCATCAACCAACCATAATATATCATGGACTA
ACCCCTAAACCTTCTGCTTAATGAATTAACATAAATAACGGGGCAAAGA
GAGCCACAGCTAATACCCCTAAACCACACTAGCTACCTAAGAACAGTAA
AAGAGCACACTCTTCTATGTAGCAAACTAATGCCAAGACTTATATCTAG
AATCGACAAACCTACCTAGCCTGGTGATAGCTGTCTGTCCAAGAAAGAAT
CTTACTTCAACTTTAAATTTGCCACAGAACCCTTTAAATTCCTCTAA
AATTAAGTATAGTCCAAAGACGAACAGCTCTTGCACACTACGAAAAAA
CCTTGTTAAGAAGAGTAAAAAATTTAACACCCCATAGTTTGCCCTAAAC
GCAGTCACTATTAAACAAAGCTGTTAAACCTAAACACCCACTTACCTAA
ACAATCCCCAACCATATAACTGAACTTACTCACACCCAACATGGACCAG
ATCTATTACCCCTAAAGAAAAAACTAATGCTAAGTATAAAGTAAACATGA
AAACATTTCTCCTCCTATAAGCCTGACTTCAGATTCAAACACCTGAACT
GTCTTTTAAACACCCCAATATCTTCCATCAACCACCAGGTCTTTATTACCC
TACTGTCAACCCAACACAGCATGCTTCATAAGAAAGGTTAAAAAAAAGTT
AAGGAACACTGCAAACTTTAACCCCATTTTACCCAAACACTTACCTTTT
ACCTTACCCAGTATTAGAAAGATCCTTCTTCCCAAGAAAAATGTTTAAC
GGGCCCTTAAAAACAACTGAATCCCCCGGCTTCAATAATTCAATACC

>Sequence 389

CGAGACTAGTGGCGCTCTTGGAGGTGCGGGTTGCTCACGCCTGTAATCTC
AGCACTTTGGGAGGCTGAAGCAGGCGGATCACGAGGTCAGGAGTTTCAGA
CCACCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAGATACAAAAG
TGGGTGTGGTGGCGGGCACCTGTAATCCCAGCTACTTGGGAGGCTGAGGA
GAAGAATCGTTTGAACCTGGAGGCAGAGGTTGCAGCGAGCCAAGATCACG
CCATTGCACTCCAGCCTGGGTGACAGGGCAAGACTCTGTCTCCAAAAAAA
AAGAAAAAAGGAAAAAAGCCTTCTTGATGCTGTTCCCCATTCTCCACT
AAAACGCCTGCTTTTCTTAACTCCACACCGAACCACCTGAAATATTTTG
GCCCAGAATGCCAACAAAGATTGAAGAAAAGATGCTTTACAAAAATAACA
ATATAAAAGCAAATTATATTATCCCTTTTATCTCCATTCTTACATTAAAA
AAAAAAAAT

>Sequence 390

CCCAATCTTTCTCCTCGCGAACGCGATCTCTGTACTTTATTTAATTTT

Table 2

TCGCTTACGGTGCGATATTT
>Sequence 391
TGTNTTGTCTCTCTCCGAGGGCGGCCGAGGTACGCGGGATGGGATTTCTG
ACCATTTGCCCTGCCTCTTGCAAAATAGGTCTAATGGCAGGATGGTGTCA
TAATTAAGGCTACCAAGACTGCCCATTTGTTCCAGGCTGGGCAGTTCATAA
TGGGGGCAGACAATAGTGCAAAAAAATTTTACATTTTATCTTTAGAGTGT
CAGGGTCAAAATGATTTCATGGTTGAGGATGTAGCCAAGTGTGGAATCA
GGTGAATAGGTGGAGAGTTGCCCATAGTGGTTTGGAAAAGAGAAGAGGA
CTTTGAAAAGTGGAGGGCTCATTAGGTGACCCAAATTTTACCTGGGGCAT
CCCCCTTTAGGGCCCCAACTTAGTCTGTGACACATCTCTGACCTTAGAT
GGGTGCTGGCACCCTTTGGAATGGTTCCCTCCATCACTGAGGACCTGAC
TTAAAGTTTTTCTATCTCACTTAAAAACAACCTTTAACGCTCTCAACTTA
GGCAATAATAAATTCCTTTTCATGAATTCCTTCACCACCATGCACCACA
CAGACCACATGCCCGGACCTCTGACTTGTGTAACCTTTGTGCATAGCT
AGGTGGGGTTTCTGGCCT
>Sequence 392
CTTATATTGCCTTATATTTTATTAATACTATATTTTCTCACCGTTTTTT
ATCCATAAATTTTCTTGTATATATGGTTTTGAACACTCATATAATTTTA
TTATNTANTATTATGTTTGTAGCGATTCACTCT
>Sequence 393
CCGGGCAGGTACAGGACACAGGCACTCCTTTGTCTGGTAGAGAGGAGGAG
GGGAAATGGAGCTATTCCAGGATACAAGGGATGGCACTGAGGGATGCATA
AGTCCCCTGCCTCCCTTGTCTCAACATGTTCTCCTCTGCCAGCCAGTCA
GCTTGGGGAGCTAGGTATCAGAAACCTGAAGGATCCAGCCCGCTTTGTCC
TACTAGTGTCTATAAGTCTCTGTCTGAGATCCTGGGGCTCCTCCTATTT
CTAGAAGGGATGAGGTGCCATCAAAAAATACTTGGCTGGTGTAAACAGTTT
AGAGAAGGAAGTCACACCTGTAGCCTGGCTGGCAGGCAGGTGGACATGAG
GCTGAGAAAGGAAGCCAGATGTCAGAACATACTAGGCTAGCATGCCTGCT
>Sequence 394
GGTGCGCTTACCGGGTGGCGGCCGAGGTACCAGGCTGGCGACAGGTGCTA
CCAGGAGTGGGCTGAGGGGAGAAAACTATCTCCCACTCTTTGGCCAG
GCAATGTCAACGACTTCCACATTCCCTGGCCCACTGGCTGAGCAACCCCA
GGTTCGGCTCTGTATAAGGACCCTCCCTCCCAACCCCAACCCAGAGTGC
AGTGCAAAATCAACCAACAATTTACTGGTGAATGGCAATCAAAGGAAACA
GTTAAACACCAAAACAATTTCTTAAAGCCAAAAAATATTTTTCATGGAGTT
GAACATTTTTCGAGTGTGTTTTTTCAAGTGTAAGCAGTGACATTTTG
TTCAACAGAAAGCAGCATCTAGGAATTCTGGCACTTGGGTTCTAGGGGGT
TACAGGTATGCATCATGGATTCTTCTCCCTCGTATTTAAAAAGA
>Sequence 395
GGCGACCCTTATCTGGTGGCGGCCGAGTACTTCATTTACACTTAAGCTAG
AGAGTTAGGATCTTAATTTATTTAAAGCCATAGATTCAGTTTAGCTTTAA
CCTAGACAGAAAGTGAAGGCAATTTTACAAGTAGAAGAGGCAATGAGAAA
TAAGGCAACAGATAATACGTCAAAGCTGGAACAAGGCAGAAATCAGAACG
TGTCTGGCTATCAGCTTTGTTTTGACTACTAAGGCCAACCTTTTATTC
CTCTGGATGGTCTGCAGACCAAGTTCAGAATTTAGGCAAAAGGATTTCCA
AATGGATCCCTATACATTTTCAGAAGATTCAGGTTGAGGAAGAAGCCACA
GAGGGCTTGTGATGAACCCAAAGGAATCTTTAAAGAAAGGGGTTCTCAAA
ATGCATTGGCCAGGTAGATTGGTTAACTTGGCAGGGAAAACTTGTCTG
GGGAGC
>Sequence 396
TACGGAGCCCGGGAGCCATAAAAAAGTGTTAAAGGCCTGGGGGGTGCCC
TTAATGGAGTGGAGGCCTAAACCTCCACAATTTAAATTGGCGTTTTGCGG
CTCAACTGGCCNCGGCTTTTCCCACTACGGGGGAAAAACCTGGTCCGTG
>Sequence 397
CTCTTAGTGGAGGGGTAAATTTGGCGCCGCTTGGGCGTAAATCAATGGG
TCCAATAGCCTGGTTTTCCCTGTGGTGGAAAATTGGTTTATCCCGCCTCA

Table 2

CAAATTTGCCACCACAAACCATTACCGAGGCCCGGGGAGGCATTAAAAGG
TGTTAAAAGCCCTGGGGGGTGCCCTAAATGGAGGTGGAGCCTAAACCTG
CACCATTTAAATTTGCCGTTTTGGCGGCTTCAACTTGGCCCCGCTTTTTC
CCAGGTCGGGGAAAAAACCCCTGGTCGGTG

>Sequence 398

GGGACCACTCACCGGGCGGCGGCCGAGGTACAAAATTTAGAGGTTTCCCC
TTTATCAACAAGAGACCCAGGTGCCAGCATGTTACTACCAGATCCAGTTC
TTCTTAGGACAGTGTGGCTCAAAGGGATGAGACCTTCCAGACACTGGTAT
CTGAGCATCTGGGCCTGCCCCCTGAGTGTCAAGAAATTTCTTATCTCTGA
AGGAGTCCAGACAGGAATGCTTCCACTGCTGGGTGGGTGCTCGCCCCCTCT
TGCTCCTTAAGCGCCCGGCTCACCCCTTGCTAGCACAGGGTGTCTTACA
CAGTTTATGGGACTTTTCTGTGAACCTACCTGAGGGCAAGAACCATGTCCC
ACTCCCTGCTTGCTCCTCAAATATTTTATAGGAAAGCAGTCCACAGTCTC
ACACAGAGGAAACATGAAGTTTAAGTTCTAGCCCTATGA

>Sequence 399

GCCTCCTTCGCCTTCTATCTCCCTTCGTATTTATTCTGAATCTGCTCAGA
TACTCATCTCTTCTTCTTATACGTATTCTATTATTCGTTTCACGCTCAT
AGTGTATNACTCTTTTTAATAAAATAATATATGGGTTGTGCGCGGAGGCC
GCCGAGTACTCGGGGAGAGAGGAAAAAGAACACAGATCTCGCATGGTTTCA
ATTTTTCTTTTATAGGTCCAGGAGTAAGATATATCATACGAAAATGAAAAT
TATAATTCTTCTTGGATTCTTGGGAGCCACATTGTCAGCCCCACTTATCC
CACAGCGTCTCATGTCTGCCAGCAATAGCAATGAGTTACTTCTTAATCTT
AATAATGGTCAACTTTTGCCACTACAACCTCAGGGCCCACTTAATTCATG
GATTCCACCTTTCTCTGGAATTTTACAACAGCAGCAGGCTCAAATTC
CAGGACTCTCCAGTTCTCTTTATCAGCTCTAGACCAGTTTGCTGGACTG
CTCCCAAATCAGATACCCCTTAACAGGAGAGGCCAGTTTTGCCCAAAGGAG
CCCAGGCAGGCCAAGGTGATCCCTTAACGTTTTAAAACACCCGCTAAGAC
ACAACCAGGCCCAATCACGTGAAGCCCTATGTATTCTCCTTCAAAAAGC
CTAAAGAGGCAGGACAGATGTTTAAATACTATTCCAGTTACATGGGCCCTA
CCCTGGGAACCCCTCAGAAACAGGTTCCAGGGCACCTTAACCAAACAGA
ACGGTATCTGTTTGGGGAGCCCATTCATTTTGGCTTAAACG

>Sequence 400

TGTGTATTGCCGAGGTACAGACAGTGCTTGATGTTTCAAAAAATACAAT
GCCCTGGTAATGTCTGCATTCAACAATGACGCTGGCTTTGTGGCTGCTCT
TGATAAGGCTTGTGGTCGCTTCATAAACAACAACGCGGTTACCAAGATGG
CCCAATCATCCAGTAAATCCCTGAGTTGCTGGCTCGTACTGTGACTCC
TTGTTGAAGAAAAGTTCCAAGAACCCAGAGGAGGCAGAACTAGAAGACAC
ACTCAATCAAGTGATGGTTGTCTTCAAGTACCTGCCCCGGGCGGTGAGCG
GCCGCCCCGGGCAGGTACGCGGGGGCTAACCAGGCCAGTGACAGAAATGGA
TTCGAAATACCAAGTGTGTGAAGCTGAATGATGGTCACTTCATGCCTGTCC
TGGGATTTGGCACCTATGCGCCTGCAGAGGTTCTAAAAGTAAAGCTCTA
GAGGCCGTCAAATTTGGCAATAGAAGCCGGGCTCCACCATATTGAGTGTGC
CCATGTTTACAATAATGAGGAGCAGGTTGGAACCTGGCCATCCAAACCAAG
ATTGGAAATTTGGCATTTTGAAGAGGGAAGACCTTAATTTCCATTGAGAGG
CTTGGGCCCCAAATCCATTCTACCCCGGGTGTTTTACCCGCCCTTGAAGG
GGGCCTCAAAAATATTTTCAATTATGCCATG

>Sequence 401

GGTCGATCGGCGGTGGCGGCCGGTTGACCTTGATGTACAGAGCAATTAG
GAGAGTCAGAGGATGAAATAGATGAACCCGACCATGCAAGTTAATCACCAA
CATCAACTACTAGCCAGACGGGATGAACCACGCTCACACAATACAGTG
TTCTGTGTGAAGTGAACAACACACTGCAGCTGGTAGTAGAAGCCTCAC
GGGATACTCTGCGACAACCTACAGCAGCTGTTTATGGACTACTAGGATTT
GTGTGTCCGTGGTGTGCAACTGCAAACAGTAACCTGCTATGGCCAATTG
TGAAGAGATGGGAGTCTCCCGTATTGCCAGGCCGGTCTCAAACCTCTG
GGCTCAAGCAATCTTCCCGCCCCACTTCCCGAAGCCCTAGGATTACGGGA
GTGAGCCACCGCACCCAGCCAGAAAAACGTTTCAAATATTGGAAAACCTT

Table 2

ACTTTTTTCAATGAGCATTTTTGCATCAAGGGGTAACAGGGACATTAGGC
TTTTTTTTCTTTTAACTTCCAACAGGAAGGGTCGGAATTTATCAAGACA
TTACATAGGAGTTAGGGCACAGCCACGGGTGGTGGTGGGGAGGACATTTT
CCAGCCTTATTAACAGGGTTTATTATAAACAGGGTGGGCCCACTACTTGT
CTAACCTAATTCCAGGTCAAGATGTGT

>Sequence 402

GCGATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACACATATCC
TCTGTGGGAAAACTGCTCTCAGAGTGTGCACTCTCCCCACAAGCCAGCG
CTCAAACCTGGAAAAAGTATCTCAATGTCCTGAATGTGGGAAAACCTTTAG
CCGAAGTTCTTATCTTGTTCGGCATCAAAGAATCCACACAGGCGAGAAGC
CTCACAAGTGCAGTGAGTGGGGAAGGGCTTTAGTGAGCGCTCCAACCTC
ACTGCCCACCTACGAACTCACACAGGGGAGAGGCCCTATCAGTGTGGGCA
ATGTGGGAAAAGCTTCAACCAGAGTTCCAGCCTCATTGTCCACCAGAGGA
CCCATACCGGGGAAAAGCCTTACCAGTGCATTGTCTGTGGAAAGAGATT
AACACAGTTCCAGTTCAGTGCTCACC GGCG

>Sequence 403

AGGTACCAAATTAAGTATTAATAAGAGATTGAACTGGGGCAAACAGGTT
ATTGTGAAAACAGTCAATATGTAAGCTCCTTCAAGGGAAATCAACTACTG
TTCTCAAGATTAGAAGATGTCCACACTCTTGCATTACCTCCCTAAAGG
AGGAAACACCCATTAATTTTCCCTTATGGAATCAATATGGAGTGGAAATA
TGAAATGAGGAGATGTTTTAGAAAGCAGGACATATCTACCTACCATTACT
GGAATTAATAATGTATCCTCTGGGCCCACTCCATTGATTCCGATCTGAGGT
GAGGAGGACTAAAGCAGCAGCAGGTTACAGAAAGACTGAATAAGATGAA
AGTATGCTACGTATGTCTAGCTGGGGAAGGGGGGATCTGGAAAAAA

>Sequence 404

TGGGGTGAGGTTTGATNCAGGGTCCGCCGCCCGGGCAGGTACGGACGCCC
AGGGATCCGCGCCGAAGCTAGCACGCAGCCTACCCAACAGTCTACACAGC
CGACCAAAGCCCCCGGTACCCAGAGGAGTCGCTGGTGAGTGGGAGCTCA
ACCTGTTCAGTGCTCTGCTCATCAAGTGCTGGAGAAGGAGGTTGCGGC
ATTGTGCAGATACACACCCCGCAGGAACATCCCTCCTTATTTTGTGGCTT
TGGTGCCACAGGAAGAAGAGTTGGATGACCAGAAAATTCAGGTGACTTCT
CCAGGCTTCCAACCTGGTCTTTTACCCTTTGCTGGTGATAAAAGGAAGAT
GCCTTTTTCTGAAAAAATTATGGCCCTCCAAAACCAGGGGGCCATGAAG
AAGTGTTTTTAAAGAAAATGCTTTTGCTTAACAATACAGAAGGTGCCATT
TTTAAAAATCCCCCTTGTCTGCATTAAACCTTTTAGGAACTTGGAGGCCT
TTGGCCCTTGATTTTTATGGGACCCGGAACATAGCAGGGTTCCTAACTT
TCCCAAGTGTGAAGCTTTGAATAAATGCCCGGCCCTCTCTGGGTGGTAA
TTATAAGGGTTGTTGTTTCCCCCAAAAATTAATTTTTTGGAGGGTAATC
T

>Sequence 405

GGGCGTGTGTAGATCCCACTCCGCGGTGGCGGCCGAGGTACGCGGGGGGC
GGCGGCGGAGAGAGCTGGCTCAGGGCGTCCGCTAGGCTCGGACGACCTGC
TGAGCCTCCCAAACCGCTTCCATAAGGCTTTGCCTTTCCAACCTTCAGCTA
CAGTGTTAGCTAAGTTTGAAAGAAGGAAAAAGAAAAATCCCTGGGCCCC
TTTTCTTTTGTCTTTGCCAAAGTCGTCGTTGTAGTCTTTTTGCCCAAGG
CTGTTGTGTTTTAGAGGTGCTATCTCCAGTTCCTTGCACTCCTGTAAAC
AAGCACCTCAGCGAGAGCAGCAGCAGCGATAGCAGCCGCGAGAAGAGCCAG
CGGGGTCGCCTAGTGTCTATGACCAGGGCGGGAGATCAAAACCGCCAGAGA
GGATGCTGTGGATCCTTGGCCGACTACCTGACCTCTGCAAAATTCCTTCT
CTACCTTGGTCATTCTCTCTACTTGGGGAGATCGGATGTGGCACTTTG
CGGTGTCTGTGTTTCTGGTAGAGCTCTATGGAAACAGCCTCCTTTGACAG
CAGTCTACGGCCTGGTGGTGGCAGGGTCTGTTCTGGTCCCGGGAGCCATC
ATCGGTGACTGGGTGGACCAAGATGCTA

>Sequence 406

TGAAATTGTTGTCTGNGATTACCTCCCCGCGGTGGCGGCCGAGGTACAG
TTCACAGTGCTTGATGATAATAAATGGTTATTTTACTGGTTCATGTATTT

Table 2

ACTATATCATACTTTTTTTCATTAGAGTGTGCTCCTTCTACTTATGTAAA
AAAAAAGTTACCTCAGGGAGGTCTTCTCCTGAGGTCTTCCAGCACACGGCA
TTGTTATCATAGAAAATGACAGCTCCATGTGTGTTACTGGCCATTACCAC
CTTCCAGTGGGAAGGATGTGGAGGTGGAAAGCATACTGATGATTTTGTCC
CCGTGGAGGCCTAAGCTAATGTGTGTGTTTGTGTCTTAGCTTTCAACAAA
AAAAAGTTTAAAAAGCAAAAAAAAAAAAAAAAAAAGTACCTGCCCG

>Sequence 407

TGGGGCGTTGGCCCTCTCCGCGTGGCGGCCGGTGTGCTCATCGTAGCCTC
GGG

>Sequence 408

GTACCTCCACTGGCTGAAGTCTCTACATAGCTCTCAGGAACCTTCGGAAA
GGCATCCAACCTTTTTACCAAACCTTAAAGTTTTTTTCCGATTCAGTCGCC
TCATCTTCAGGAAAAACCTTCTCTTCTTCATATAGTCATGCTTGTGTTA
TGGTCCCAGCCTACCGCCATGTTTTACAGAAGCCCGGGTCGCCGGGGCTC
CCGCGTACCTGCCCGGGGGCGGCCGCTCGAGGCAGGTACTGAATGACACATT
ACCTCCACACTCTCCCGGACTAGGTGGTCAACAGGGCCACAGGGTTGCTT
TCTGCTTTTGGTGGGGCAGGGGAGTTGACAGGGATGAGGGTCCAAGGAAT
TAGCATGAATGACAAGATAACAAGGGAAAGAGTTAACCTGTACATAGT
AGGTTAACTTTTTTCAGGGTTTGGCAGTAGAGGTATTCGAACCTTCACTG
GCTGAGCCAGATCACGGGAACCTGGGAGCTTTTACTGTGATTCCTCATGT
AAAAAATTAACAACATGTCAACTGGGTGGATGATTTGTTAAGGCCCTT
TAGATTACTTTTAATAACATTTTCCCGAAAAAAAAAAAAAAAAAATAGTAC
TGGCCGTTTAAACTGGGGTCCCCCGCCTGGGGTTTCTTTCAACTTTTCTT
CCCGACTGGG

>Sequence 409

CCACTCGCTTCATCTATTTCTATTTATCCATATACTCTGTTGTTCTTGGC
GCTATATATTTGTGTATTAACACTTTTTTTTTCTTCCCACTAATTTTGT
GATCTACCTAATATTTTCTTCACAATCTNTTCTATATTTTTTTTCGNAA
TTTATTTTCTCCTCATCCGGTGGCGGCCGAGCACCTNATTTTTTTATTTT
GCTTTTTTTTCGCGGGAGTTAAATAAAATAAGCATGTCTTCATCCTTTAT
TCCTAAACATTTACTTATGACAAATGTAACGACTGACAGAAATTTGAAAA
ATACCAGACACTTCTTAAATGATTTCCCTTGGTTCAAAATTTACCCCTTC
TTGTTTTCTCTTGCTTTTCAGGTAATTAACCTCTTCTTTTTTAGTTTGAA
CTATGCAGTGCAAGATTCTCTGTAGTCTTTCCAAGTGGACGGGTATTAA
AAAAAACACTTTATATTATGCCAGGTGAGGTGTGAGAACCTGGCTTCG
GAAAGTGGTTGGCTCACCCCGCTACTGTCCCGGGTTATATTATTTTAT
TAATTTTTCTTTTTTTCTTCTGTCTGCTGCTGCTGCTGCTTTTTTTCTTC
TATTTTCCCCCTTTCTACATAAAATTCACCTTTTTCAAATTTTCCCCATC
TTGCCTATTTTGTATAGTTTTCTCCTTGTGTTCCACTCTTGGTTGAATT
TTTTTTATTTTTCATTGTCCTTCTTCTTTTTTACAAGTTCTAGCCTAT
CCAGGTTTTTAAAGGGTTTTTCTCAACTTTTTTCCACTCGGTATTCAA
TT

>Sequence 410

TGTACTGATGCGTGGGCGCGCCGGGCAGGTACTGTGCAGTAGTAACCATA
ATTCTAAATGAGGATTATGGATTTTTCTGGAAGATTCTTTTTCTGTGG
AACATGATGAGAAATGTTTAGGAGAGGGGACATAGCCATTTTGTATGAA
GACCAATTCAAGAAAAAATATATGTATGTGTGTGGGTGTATATGTGTGT
ATATATGTATATATGTGTGTATGTGCATACGOCNATGTATGTTTATATAT
GTGGTTATACACACGCACGCACACACTGACAACGCATGCACACATGCAC
GCACAACCTTCACTCTATATTTATTCTCTGCCTTCCCTGGGGGACTGATGC
CAGAACCTCTTGTAGATACCACATCCGGGGGTGCTCATGTCCCTCTGCC
AATAGCTTAGTCCGGCTGGGCATCGTGGCTCACATTTGTAAACCGCACAC
TTTGCGCAGCCCAAGCCGGCCGACCACTTGATGTCAAGAGTTTGGGACCA
TCCTGGCCACATTTGTTAAACCATTTTTTTTCTTAACTTACAAAATATTT
CGCATGGGGGACCGCCCTATCAAATTCACACTAATGAGGCCCGCGCA
CGAATGGTTGAACCCGGGATGGGGAGGTTTCAAGGGCCCTATAGCATGC

Table 2

CCATTTCTCCAAGGGGGG

>Sequence 411

TGTAGATCGTGC GGCGGGTACGCGGGTGCTGGGATTACAGGCACGAGCC
AGTGC GCCCAGCTGCCTGTGTTTCTTTATTAGCTGATCTGGACTGAGGG
GCTCCTTGAGCAGATGCTGTATTATGGGGATAAGCCACACACTTTCTGAA
CTGGCCCGGT CAGGGGGGACATAACCATTTCCTGTGCCACCCCATCAGTA
CCCACCTATTGTGAGCGAAGGCTCCTCCCCTGCTTGAGTAATGGCCACAG
ATCTTGGCTCGGCACCTCCTAAGCTGCATGATGAATTCCTGGGACAACAAG
ACTGGCTCGTGGTTCATTCTCCAGATCCTTGGGTTGGCTTCTGGGTGCA
CTAGGAGATCTGAAATGCTCTCAGGCCACCAGGAAAGTACTGGAAGTAAA
GTCTGACTCTAAAGAAGATGAAAATCTAGTAATTAATGAAGTCATAAATT
CTCCCAAAGGGAAAAACGCAAGGTAGAACATCAGACAGCTTGTGCTTGT
AGTTCCTAACCAACGCAAGGATCTGAAAAGTGTCTCAGAAGACTACTAGA
AGAGACGAAACGAAACCTGTGCCTCGAGCGGTCCGCTGGCAGGTACAAG
TTGTAGTAAAAACAAAGCTTAAAGTTTTTTCATCTTTCTACAGCAAATGGT
CAGTTATTTATAAACCT

>Sequence 412

GTTGATGGCGCGCGGCAGGTACTAGAGTTTTCAAGTATGTTCTAAGCAC
AGAAGTTTCTAAATGGGGCCAAAATTCAGACTTGAGTATGTTCTTTGAAT
ACCTTAAGAAGTTACAATTAGCCGGGCATGGTGGCCCGTGCCCGTAGTCC
CAGCTACTTGAGAGGCTGAGGCAGGAGAATCACTTCAACCCAGGAGGTGG
AGGTTACAGTGAGCAGAGATCGTGCCACTGCACTCCAGCCTGGGTGACAA
GAGAGACTTGTCTCAAAAAAAAAAGTTACACCTAGGTGTGAATTTTGCA
CAAAGGAGTGACAACTTATAGTTAAAAGCTGAATAACTTCAGTGTGGTA
TAAAACGTGGTTTTTAGGCTATGTTTGTGATTGCTGAAAAGAATTCTAGT
TTACCTCAAAATCCTTCTCTTTCCCAAATTAAGTGCCTGGCCAGCTGTC
ATAAATTACATATTCCTTTTGGTTTTTTTAAAGGTTACATGTTCAAGAGT
GAAAATAGATGTTCTGTTGAAGGCTACATGCCGGATCTGGTAATGAACC
TTGTAATGCTGTATTTGCTTCACGGCTTACTATAAATGTTACTTAATACA
TATCAACTTATTACAATTTACTATAGAGGGTATAAGTAAATTAATCTCTA
TTT

>Sequence 413

TGGATGTGTGGGCCGAGGTACCTAGTCTATATGAGTTTGATGCTTACAGT
CAAGGCTATTAGCAAATATTCAGGAAAAAGTAAAGCCTAAAGAAGAAAAAG
GGGAATGAATAGTTTGTCTAGAGATAATAAAAGGAAGGTGAATTTTAAA
AAGACAAAAATAAGGCTAGAAAAGACTGAGTGGAGAAAGCCTACAGAATT
TCAGAAAGCTAAAGAAATTGGAAATTAGATTGAATATAGATAGAAATGGG
AGGACAATGCAGCCAATGAAAGACTGTGGGGACTAATAAAGGGAGAGCCC
TGTGGTTTGGAAGTGTCCCTTAATCAGCCTGCAGTGCTGCAAAACAGAA
ACCCAGAGAGGGGTGCTTGAGAATATACAAGAACCTTGCGGTGGTGACTG
AACAAAACGCAGCCAGGGATTTTCATCAGAAGCATAATCCATTTCATGGCAC
CAGTCTGGCAGTGCTGGGGAGCTGGTAAGATACACACAGGCCAGTGCTCC
AGTCTTGATTTGATATGCTGGTATTTTGGTTCTGTGGTATTCTTTTATCA
AGGACTAAGGGTTCCCATGTGCCTTCGAGGGCATATTNTTCCACCGACA
CGTCGGGGTCTAGGCCTACGGTGGCTTTAACCTACTTCTACCCCACT
T

>Sequence 414

TGGAGATCTCCATCGGGGGCGGCAGGTACGCGGGATCCAAGATGAAGTGC
AGAGAAAAATAAAGAAATCCAAAGTCATAGTCATGAGGACAGAATAAAGACA
TTTTATGCCTTTTTGTGTTTTGTTTTCCTTTTTGTGGAGAACAGGGT
CTCTCTATATTGCCAGGCAGGTCTTGAACCTCTGGGCTCATACTGTCT
CCTGCTTCTGCCTCCCTAAGAGCTGGGATTACAGATGTGAGCCACCATGC
CCGGCCAGAAATAAGACATTTTAAACTAAAAAAAAAAAAAAAAAGAGTT
TGCTTTGCATTAATCTTTTTTTCTTTTTTTCGTTTTTATTTTTAGTT
TTTATTTTTTTGAGACGGAGTCTCACTCTGTACCCAGGCTGGAGAGCA
ATGGCATGGTCTCGGCTCACCGCAACCTCTGCCTCCTGGGTCAAGTGAT

Table 2

TATCCTGCCTCAGCCTCCTAAGTAGCTGGGATTACAAGGTGTGAGCCACC
ACGCCTGGCCAGAATAAAGACATTTTAAAACTATAAGAAATAAAATAAAA
TANTTGTAATACTAACTCAAATTTTAAAAAAAAAAAAAAAAAAGCCCC

>Sequence 415

CTTGAAC TTGTTTGTCTGCTTCCGCTAGCGGATTTAGTTAACTCAAAGC
TGTAATTCGGGTATCTCAAAATAATGTGATTACCCCGGAATTACCTTTTT
TCAATGGTCTCTAAAATGCCATAACCTTATAAGGGCCGGTTGATTACGCT
TTCATATAGTTGGCCCCCTGCCAGTCTATAAAAAAGT

>Sequence 416

TGGTGATCGAGACCTCACCGCGGTGGCGGCCGAGGTACGCGGGGCTGCGG
AGGACCGTGGGCAGCCAGGGTCGGTGAAGGATCCCAAAATGGCTGGGCGA
AAACTTGCTCTAAAAACCATTGACTGGGTAGCTTTTGCAGAGATCATACC
CCAGAACC AAAAGGCCATTGCTAGTTCCCTGAAATCCTGGAATGAGACCC
TCACCTCCAGGTTGGCTGCTTTACCTGAGAATCCACCAGCTATCGACTGG
GCTTACTACAAGGCCAATGTGGCCAAGGCTGGCTTGGTGGATGACTTTGA
GAAGAAGTTTAATGCGCTGAAGGTTCCCGTGCCAGAGGATAAAATATACTG
CCCAGGTGGATGCCGAAGAAAAAGAAGATGTGAAATCTTGTGCTGAGTGG
GTGTCTCTCTCAAAGGCCAGGATTGTAGAATATGAGAAAGAGATGGAGAA
GATGAAGA ACTTAATTCCATTTGATCAGATGACCATTGAGGACTTGAATG
AAGCCTTTCCAGAAACCAAATTAGACAGAAAAAGTATTCCTATTGGCCTT
ACCAACCATTGAGAATTATAAATTGAGTCCAGAAGAGCTTGGCCTTGAT
ACACATCTGACTTAAAAATATATTTTCAAAAAGAAAAAAAAAAAAAGTCCT
GCCGGCGCC

>Sequence 417

TGAANTTGATGCTCTCCGTCTGCGCGGCGGCGGACCTTTTTTTTTTTTT
TTTTTTTTTTTTGAGAGGGAGTTTTGCTCTTTTGGCCGGGCTGGAGTGC
AATGGCAGCATCTCGGGTCACTGCCACCTCTGCCTCCTGGGTCAAGTGA
TTCTCCTGCCTTAGCCTCTTGGGTAGCTGGGATTACAGGCGCCACCACC
ATGCCTGCCCAATTTTGTATTTTATGATAGAGATGTGGTTTCACCATGTTG
GTCAGACTGGTCTCGAACTCCTGACCTCAAGTGATCCACCCGCCTTGGCC
TCCCAAAAGTGTGGGATTACAGGTGTAAGCCACCGTGCCCGGCCATCAGT
TGTATTTCTATATAGTAGCCATGAACAATCAAAATGAGATTAAGAAAATG
CCCTTTTAAATTGCTTTTAAAAGAATAAAATTTTAAATGATTAAATTTAA
CCAAGAAGGGCCAAACCCTTTCCCTTGAATATTACAACTCTTTTGAAG
GAATTCAAGGAAGTTGAAAGCCCCTTCCTGTTTTCGGGTTTTGAAAAAT
TTTTTTTAGGGGGGGCTCTTCCCAAAAAATTTCTAAGGTGGGGGGCCTT
TCTAAAACATTTTTTTTTTTTTTAAAAAAGTTTATTTTTTTGGT
AGGGGGGGGGCCAAATCTTAAATTTTAAAAACCCCTCTTCTTTTC

>Sequence 418

GCTGTGATGCAATCCNACTCACCGGGTGGCGGCCGAGGTACGCGGGATTT
TGAATGAATTCTCAACAAAATGTGCTAGCCACTGGGGACGCAAAACAAGT
AAGATCCCTGTTGCAAGAAATTCATTTTATAGTGAGGGAGGTTGGCATGG
AGACTAAAATTTCTCAGGAAAATGAGATCCGTGTTAGATAGAATCCTGATG
TGAAATGGGAGGACTCAGGAAGGAGGATCGTCTTTACCTGAGGATTTCTA
GCCAGAGGTCCCAGATGCCTGGGCTGAGAACCAGCGATAAGGGGGCGTT
CCCAAGCAGACACAGGGATAAGAACAGAGGAGGCAGCAGCATTGCACAG
CCCAGGCACAGTGGCAGTTAGGATGGCTGGAGAGTAGGATAGTTCTATG
GGTTGCCCAAAAAATGTGATGTGCTTCATGTTTTCTCTGACTCATGGATC
TGGTAGAGACCATAGACATGATATAGACTAACTTGCCCATTTTTCACAAG
AGGAAACCATGCTTATGACTTACCTTAAAGTTTTTGTCTGTTTTGAAA
GAAACCATGTGCTTCATGAAACCTACAGTTGACAAGGGAATGTACCTTGC
CCGGC

>Sequence 419

AGGTACAGTATATTGACCTTAAAAATCAGTAAAGCAGTCATGGAAATAAC
AGGTCGTGATTATTATGAGCAGCAAACTGACTCATGGCTGGGGAAGAAG
CAGCCACCTTAGACCAGATGGACAAGCCAGATACTGCAGAGAAGTTTCTG

Table 2

GGCTTTTNGGGAGACTCTAGATTCAATTCTGTAAAGTTATGATGCAGTTT
TCTCCTTCCTCTCCTCTCACCTCCTCTGAGCACAGCTTTCAACAAAACT
TTGCATACCCCGCGTACCTGCCCCGGCGGCCGCTCGAGGTACTTCTCTGA
GCATTGGCCTCTGGCTGGGATTATGCTTCAACAGTCTTGAAATGAGGTCC
CTGGCTCCCTCTGTTACAAAGTCAGGGAATGTGAATTCAACCCGTGATAT
TCTTTTGTAGGTCTCTTGGTATGTGTTTGCCTCAAAAGGAGGCTTCCCAA
CTAAAAATTCATAGCAAAGAACTCCAAGGCTCCAGAGATCCACCTTCTCA
TCATGCATGCGACCTTCAATCATTTCAGGGGGCAGGTAGTCCAGGGTGCC
ACAGAGAGTGGTCTGCTGGAAGAGGAGCATGTACCT
>Sequence 420
NCCCGATGCNCTTACTTGAGGCGCCCCGAGGTACGCGGTGGTGGCGCCA
TTTTGTCTCGGCAGCGGTGGCCGTAGCTCCATCGCATTTTATGTTTCTGG
CGAGAAGGGAACGGAGTTTTTCATCAGGTAGATTGGTTTTTGT
>Sequence 421
GAGGGGATCATCCGACCGGGGGGGGGCCCGCCTGCCCTGAAAGACCTCC
TGCTGGAAGACCTCCAGGATGGAGAAGTGAGGCTGGGTGGCTCCCTGCGA
GGGGCATTGAGCAACAATGAGAGAATTAATACTTCTTCAGAGTCAGTTT
CAAAAATGGATCCCAAAGTCAGACCCACTCGCTACAAGCCAATGACACTT
TCAACAAACAGCAGTGGCTTAACTGTATTTCGTCAAGCCAAAGAAACAGTT
TTGTGTGCTGCCGGGCAAGCTGGGGTGGTGTGACTCCGAGGGATCGTTCCT
AAATCCCAACACCGGAGCAGAGAGCTACAGGGAGAAACAAAACCTTGAGC
AGATGGACCAATCGGACAGTGAGTCAGACTGTAGTATGGACACGAGTGAG
GTCAGCCTCGACTGTGAGCGCATGGAACAGACAGACTCTTCTGTGGAAA
CAGCAGGCACGGTGAAAGTAACGTCTGACAGAAGCATGTGCACTTCGGGA
AGCAGGCCTGCATCTTACCTGTACCTTGCCG
>Sequence 422
GGGCTATGTGCANTNTTTTTTGAANNCCNANCTTACCGCGGTGGCGGCCG
CCCGGGCAGGTACGCGGGAACCTGGGGAATTCTGGCCCTACGTGCATTAC
AGGCAATGATGGGTTTGTGTGTATGGTGTGATGAGATCCTCTACCTCATA
ACAAAAGGACAGTGGGTAGACTAAGGCAGTAGCTCAAAGGGCTTTGCAAA
ATTTAATATATTAATAACAAGAGGCATCTGCTAGAAAACATTCTATTGTAT
ACATACTGAAAACCTATAAGGTCCTGGATAATTTTTGTTTGATTATTCA
TTGAAGAAACATTTATTTTCCAA
>Sequence 423
TTTGGANTNGCCACTCCACCGCGGTGGCGGCCGAG
GTACGCGGGAGAAGGAGATTACCTCAACATAAGAACCGTATGTGAAAAGC
CCACAGCTAACATCATACTCAATGGTGAAAGACTGAAAGCTTTTCCCTA
AGCTCATGAAGAAGACAAGGAGGCTTGGTTTTGTGGCTTCTATTTAACAT
GNGTAATGGAAGTTCTAGCCAAAGGAAGTAAGCAAAAAAAAAAATCGAAA
TTAGACAGGGGGAAGTAAATATCTTTTTGTCAGATGATATGACTTATAT
GTATTATAGAAAACCTGGGCCAGGTGCAATGGCTCTTGGCTGTAATCCT
AGCACTINTGGGAGGCCGAGGTGGGTAGATTGCCTGAGCTCAGAAAGTTTGA
GACCAGCCTGGGCAACACGGTGAAACCCCGCCTCTACTAAAATACCAAAA
AAAAAAAAAAAAAAAAATTAGCCGGGCGTGGCGCATGCTAAGGCAGGAGAATT
GCGTGAATCTGGGAGGTGGAGGTGCAATGAGCTTGAAACTTGCCACTGC
ACTCCAGCCCTGGGGGACAGAGCAAGACTCTGTCTCAAAAAAAAAAAAAAC
GGAGAGAGAACCCTCAAGATTACGCACACACACAGAGCCCTGCTTGA
ATAATAAATGAGGTCAGCCAAGAGTTCCGGCATATACAATCAACAGGCA
AAAATCCCTTGTCTTCTTAGCCCTGACATTAAAAATTTNNAAAAAGAACTTA
GGATACCGGTTTATTTTATTGCATTCAAAAAAAAAAAAAAAAAAAAAA
GAACTTGCCCGGC
>Sequence 424
TGAATGATGANGTCNCTTCCGCGGTGGCGGCCGAGGTACTGCCGTAGCCG
CTCCTCCCGCAGCTGTGCCGCTCCTTGTCTCCTCCTCATTGTCACTGC
CAAAACAGGTCAAATCATCTCGTCATCCTCTGCTGGTGTGGCTGGC
TTCCAAGCTGGTGGCGTGGGCTACGGTATCCGGAAGCTACAGATTCACT

Table 2

GTGTGGTGGAGGACGACAAGGTGGGGACAGACTTGCTGGAGGAGGAGATC
ACCAAGTTTGAGGAGCACGTGCAGAGTGTGATATCGCAGCTTTCAACAA
GATCTGAAGCCTGAGTGTGGGTACCTGCCCG

>Sequence 425

TGGATGATGAAGTCCTACCGCGGTGGCGGCCGAGGTACTAAGTGGTTTA
AGGATGGAAAAGAGCTAACAAGTGACAACAAATACAAAATAAGCTTCTTC
AACAAAGTATCCGGCCTTAAGATCATCAATGTAGCGCCGAGTGACAGTGG
GGTATACAGTTTTGAGGTGCAGAACCTGTTGGCAAAGACAGCTGCACAG
CTTCATTGCAGGTTTCAGGTTGGTTGATTTCTTGGGCTTTTCCTTCATCA
TTATAATAATGTAGTTCCTGATTTTCATAAATGTATATGGGTTGTTACAT
CTTCTATAGGATAACATGAGTCCGACATCTTCTGAATCAGCAAATTCAGA
GGCAATACCATCTCAAGAAGCCACCATTGAGACCACAGCCATTAGCTCAT
CCATGGTCATCAAGAACTGCCAGAGGAGCCATCAAGGCGTCTATTCTCTT
AAAATGAGAGGCAGGACTGGCTAGGGTGATGCCTAAAGATGATTCCCAGG
CTTGACATGCTGGTATTCTTACATATCTATTCTGGCTGTATAATCTGTG
CGATGAAAAATCCAAAACCGAGACAGGAATTCGCACTTGTTAAAGTGAA
GCTCCAAGCCTGAGATCCAATTGG

>Sequence 426

GAATGCTGAAGCCCTCTCCGCGGTGGCCGGCCGCCGGGCGAGGTACTGAA
TGTGGGAAAAGCCTTTTGCCAGAAAACACACCTGACCAACCATCAGCGAAC
ACATACAGGAGAAAAACCCCTATGAATGTAAGCAATGTGGAAAAACATTCT
GTGTGAAGTCAAACCTCACTGAACATCAGAGAACACACACAGGGGAGAAG
CCCTATGAATGTAATGCATGTGGGAAATCCTTCTGCCACAGATCAGCCCT
CACTGTGCATCAGAGAAGACACACAGGGGAGAAACCTTTTGGATGTAATG
AATGTGGGAAAACCTTCCGTCAGAAGTCGGCCCTAATTGTTCAACAGAGA
ACTCATATAAGACAGAAAACCCCTATGGATGTAATCAATGTGGAAAATCATT
CTGTGTGAAGTCAAACCTCATTGCACATCATAGAACACACACAGGGGAGA
AACCCTATGAATGTAATGGTTGTGGAAAATCATTCTATGTTAAGTCAAAA
CTAACTGTACCT

>Sequence 427

GAAATGATTANTGCCTGACCGCGGTGGCGGCCGAGGTACCTTACTTAGCA
GAGCACTTTGCAAACATATTACTTATTAGCAGAGCTCTTTGTAGACCTTC
CACATCTGGCTGTGAGATCTTAAGGTTGTGAATTTAGGCTCCAGTTATAT
TCACTGGAGAGCATAATCCACACGGGTTATTTATAAATACAGAGCCTCT
GATTGGACGGTCTCCTGCCAAGAACTAGTAATACCCTTGTTTTAAATCT
TCACAAGGTAAAACTTAAAAAGCCAACCAACAAATGCTCTCCATTCTA
CTTTAATTGGGCCAAAACAGCATATGCTACAGTAGTAACATGTTTTTCGG
AGAGTGTAAAAAAACTCTGTTTACATTTGCCTCCTCCGTGGGTTGATCGAA
AATGTATAAAACTGACTGCTTCTCGCCAGCCTCAGACAAGAAGAGTGAGC
TGCTGGT

>Sequence 428

TCTACACGCGAACTTTGCACCTCTCTACATATCGTATGTAGTATGACTTC
TAATTTACTTTCATATCTGACTCTACCTCTATCATACAACTATTCTGTCTAA
TAAGTTTGATACGATTATTAGGTGTGAGAGCATCATCATTACCACA
TACAANTAAGGGGNNNGAGTTGATTGATGCNCCCTTCGCGGAGGCGGC
CGAGGTACAATTCATCTAACTTGCGGAAAGCACTTTCAGGCCAAATGCAG
AAACGTCCCATGCCCCAGGAGCAAGCTTCAAAATGTTCACTTGGGG
CATTAGGCAGAGTAATTCAGGGATGTTTCTGAAGGCCTTGATGATACCA
TTATCCTCATTATAGATGATGCACGGGCCCTGCGCTGGATACCGCGACG
GTTTCTCATTTTGCCTTTGACAGCTCTCATTCTGCTGAGAGGCATAGACCT
TTTTGATATCATTCCAGGCTTTAAGGCTTCTTAAGGAGCAAAAACAGCTTC
CTTGGTCTTATTGTAGCCTTCAACTTTATCTTCAACTACCAAAGGAAGTT
CAGGAACCTTCTCAATACGATGACCTTTAGACATGACCAGTGCTGGTAGG
GCTGAGGCAGCCAGGGCAGAACAGATGGCGTATCCTTTTTGGGTTCCCGC
GTACCTGCCAG

>Sequence 429

Table 2

TGGGGCGTTGTTCTAACC GCGTGGCGGCCGAGGTACTTTTTTTTTTTTT
TTTTTTTTGTGATCTCAACTGCTTTTAGCAAGTTGTGAATATACTTGGGC
TTTCTGTCTTTCCCCAAAAGCAATTTGGGATTATTTCTCTCTTTTTTT
CTGCATTTTCATATAAACTGTGTCATATTCATACACAGTAGCATCTTCTG
CAAGGGCCCTCTGGAATTTCCAGTTTGGTCTGTTTCATGGCCTGCTTCTTA
GCAGCTTCCCTCTGAAGGCTTTCACTCACAGAGGTCTCATCATCATCATC
AGAACTATTCACCAAACTGATGGTTTTTGCAAAACAGGGTGCAACTGCT
GTGTTTTCTTTGGCAAAATAAGCCCATACTACCTGCCCC

>Sequence 430

TTTTCCGTTGTTCTCTCATCCGCGTGGCGGCCGAGGTACAGACAAAACACTAC
AGACTTAGTCTGGTGGACTGGACTAATTACTTGAAGGATTTAGATAGAGT
ATTTGCACTGCTGAAGAGTCACTATGAGCAAAATAAAACAAATAAGACTC
AAACTGCTCAAAGTGACGGGTTCTTGGTTGTCTCTGCTGAGCACGCTGTG
TCAATGGAGATGGCCTCTGCTGACCCAGATGAAGACCCAAGGCATAAGGT
TGGGAAAACACCTCATTTGACCTTGCCAGCTGACCTTCAAACCTGCATT
TGAACCGACCAACATTAAGTCCAGAGAGTAACTTGAATGGAATAACGAC
ATTCCAGAAGTTAATCATTTGAATTCTGAACACTGGAGAAAACCGAAAA
ATGGACGGGGCATGAAGAGACTAATCATCTGGAAACCGATTTCACTGGCG
ATGGCATGACAGAGCTAGAGCTCGGGCCCAGCCCCAGGCTGCAGCCCAT
CGCAGGCACCCGAAAGAACTTCCCCAGTATGGTGGTCTGGAAGGACAT
TTTTGAAGATCAACTATATCTTCTGTGCAATCCGATGGAATTTCACTTC
ATCAGATGTTCAACATGGCACCCGAGAACACCGAAGTAATTCAGCATAA
GCGGGAAGATN

>Sequence 431

GAAAGTTTTCGTATCGGGGGCGGCGAGACCAAACAACAGCCCTCCAACAA
TGATGACCAAGTGGAACAAACAATGGAGTCACCAAAACCTGGGACAGGCTCA
TGCTCCAGGACAATTGCTGTGGCGTAAATGGTCCATCAGACTGGCAAAAA
TACACATCTGCCTTCCGGAAGTGAAGTAATGATGCTGACTATCCCTGGCC
TCGTCAATGCTGTGTTATGAACAATCTTCGAGCGGGCCCGGGCAGGAC
GCGGGAGTTCAAGAAGCTGGTGGTCAAGGAGGAGGAGGTGGAGGTGGCAG
TGGAGGAATTGCAGAAGCTGGAAGTGGTCATATGAACTACATTCAAGTAA
CACCTCAGGAAAAAAAAGCTATAGAAAGGTAAAGGCATTAGGATTTCTT
GAAGGACTTGTGATACAAGCGTATTTTGCTTGTGAGAAGAATGAGAATT
GGCTGCCAATTTCTTCTACAGCAGAACTTTGATGAAGATTGAAAGGGAC
TTTTTTATATCTCACACTTCACACCAGTGCATTACCTAACTTGTTCCT
GGATTGTCTGGGATGACTTGGGCTCATATCCACAATACTTGGTAAAGGTA
GTAAATTGTTGGGGGTGGGAGGGGGGGAACCTTGAT

>Sequence 432

GGGCGTGTTCGATTACCGCGGTGGCGGCCGAGGTACCACTGCTTCCCGG
GACTCTGCGTTGTTACCACTGCTTCCCGGGACTCTGCGTTGTTACCACTG
CTTACTGCGTTCCAGCATTTCTTTTCTCTCTCGTTTCTGTAGATTCC
GGCTAATGGTTTCCCTGGCATTGACTTCGTGATGTGTAACCTGATTCTC
TTCCTGAAGGGGGAAACGCATTCCAGAGCATTTGTTCCGGGCTCATGTAGG
AATAGATCTTTGACTGCCCCGTAAATCCCGCGTACCTGCCCC

>Sequence 433

GGGATGTGTTTGAATNTGCNAGCTTCACCGGGNGGCGGCCGCCCCGGGAG
GTACAAATCTACCTCCCCACCAATGTCCTTAGAGGGCCAAAGATGGCCT
TTGTTTCTTCATGATAACATCGCCTTTCTTTTTTTTTTTTGGAGACACGGT
TTCATTCTGTACCCAGGCTGGAGTGCAGTTGTGCATTTCATGGCTACCA
CAGCTTGAACCCCCAGCTCAGGTGATCCTCTACCTCAGCCTCCCCAGT
AGCTGGGACTACAGGGGCACACCATCAAGCCCCGGGTAATTTTGAATT
TTTATAGAGACAGGATTTTACCATGTTTCCAGGCTGGTCTTGAATTCCT
GGGCTCTAGTGATTCTCTGCTTGGCCTCCCAAAGTGCTGGGATTACAG
GCATGAGCCACCACACCCACCTGTCTATTTTACAATTTTCTTTGAGCT
CTTTTTCCAGCAGTCATGAAGCTGGCAAATGGCAGAACTGGAGCTAGAA
ACTGCTGACTCCCTTTATCTTTTCCATAGCACCCCAAGCCTAAAACCGA

Table 2

CTGGCACAAATGGTACCT

>Sequence 434

TGGCTATAGAGACTTCCTCGCGGTGGCGGCCGAGGTACTTTTCTAAAAGC
TCATCCACTCTATCATTTAGATATCCAATTTTCAGAATGTGCTCAACATT
GGCCACTCCATCTGCCATTCTTAAGTCTCCTTGGGAGTCTCCAGAGAA
TTATGTTACTATTGTCTTTTAGTTGATTGAAATATTCTGTATTCCTCAAG
GCACCATCATGTTTGTAAATACATGAATTAGTTCTCCTTTAAATCCTTT
GAGCACCCCTATGAAAAATATAAATCTTTTGAACAGGCTTTAAAAATTC
TATTTGTTGGATTTTCATATTTTGGAGCTCTTAATTGATGTCACTATTAT
TTCATCATATTTGTAAATACATCTTTGATACTAGAGATCTCAAAGCACTT
AAGTCCATCACATTCACCATAGCTAAGAAGGGCTCGGAGAAGTAAATGAT
TTTTTAGATACTATTTTAAATGGTAAAAACAAAGCCGGGCGCAGGGGCTC
ACACCTGGTATCCAGCACTTTGGGAGGCCAAAGAGGACAGATCACTCAG
GGTCAGAGTTTCGAGACCAGACTGGCCATATGGTGCCAACCCCTCACTA
AAATAAAAAATTAGCCACGTTTGTGGCACGCACTGTAAT

>Sequence 435

GGGATGATGTGACCCTGTCCGCGGTGGCGGCCGCGGCGGAGGACGCGGG
GGTTGCTCAAACCGAGTTCTGGAGAACGCCATCAGCTCGCTGCTTAAAT
TAAACCACAGGTTCCATTATGGGTCGACTTGATGGGAAAGTCATCATCCT
GA

>Sequence 436

TGGGGGGTTGTACCACCGCGGGGCGGCCGAGGTACGCGGGGGAACACCA
CCCAGTGTGGAGCAGCCAGCCAAGCACTGTCAGGAATCCTGGGGAGGCA
GCTACCAACTGACTGCAGATCTGGAATAATAAGTGAGGGGTAGATCTGCC
CATAGAGCTCACTTTAGACCGGCCTATACTCCTACAAAGAATTGTGGTAG
GATCTTTTACTCATCCTTGCCACAATAGAATGGCCAATGCCCTTCTAAGA
TGTTTGGTGAAAGTCTTGGAAGCACCATTTTCCCCATCACCCCTGGGAA
GAAATGAAGTCCCTAAGGCAACCACCGGGCTAATGGAGGCTGAAATTTT
AACAAAACCCATTGGGGGGGAAAAACCCAAAAGGGCGGGCATATTTTTT
TTTCCCCAAAAGGGAGCACAAACCCAATTAATCTTTAAACGGAGTGGG
GGGGGCAAAATTTATGGCCCAATGGCACAACTGGGAAAAAAATCCTAA
GGGCCCCGGTTATTTCCCTATAACCCGTAATAACTCCAACCCCGTT
AATTTTTAGAAACCTTAAAAAGACACATTTTTTGGGAAAAGCAGGGGG
AACCTTTTTTCAAACCTAATCCCACTTTGGCTTCCCTGGGCACAACAA
TTATTGGTAAGGGGCCTTTGCAAAAATAAAGGGGAAGGACCCTCCCCGGC
GGGCCCTA

>Sequence 437

GTTATACTAGTTATTTTATATTACTCGTAATATGCTTCGTATTCGTTTCT
TTATCTTAGTTGTGTACGTTATACTCATGTATCAGTTTGTAAATTTACTAA
AATTGTATCTATCATATAGTTACTATTTNINNTATCTTGCTGTTGTCCGT
TGGCGGCCGATGTACCTTTTGAAGAGAAAAAGAACTCTGAATTGTATAT
ATTTATTTTGCTTTACAGAAAAAAATGGTTTCGTAAATAATTGCCTATT
TTGGTTAACATAGCACATGGAGATAATCATCTGAAAGTTATAGGGCACTG
CCACTGCTGAATCAGAGCATGCCCAATATTTGAGGTGGCTCTGATTTCTT
GGCAGCTGAACCTCGGGTAGTCCAGTGGCCTAGCTGGTCTGCCCG

>Sequence 438

ATTTCTAGTCTATAATCTTCTGTTATATTTATATGTATTTTATCATT
ATGTAGTATGTATCTATATATTAATTGTTTAAATAGTATGTGATTACTCTA
TTAGTCTATTATTTTATTTTGTTCGAGTGTCTGCCGCCCGGCGAGGTACG
CGGGGAGGTGCCGCTGTTGCTGCTCGTGTGAATCTAGAACCGTAGCCAG
ACATGGGACTGGAGGACGAGCAAAAGATGCTTACCGAATCCGGAGATCCT
GAGGAGGAGGAAGAGGAAGAGGAGGAATTAGTGGATCCCCTAACAAACGT
GAGAGAGCAATGCGAGCAGTTGGAGAAATGTGTAAAGGCCCGGGAGCGGC
TAGAGCTCTGTGATGAGCGTGTATCCTCTCGATCACATACAGAAGAGGAT
TGCACGGAGGAGCTCTTGACTTCTTGATGCGAGGGACCATTGCGTGGC
CCACAAACTCTTTAACTTGAATAAATGTGTGGACTTAATTCACCCC

Table 2

AGTCTTCATCATTTGGGCATCAGAATATTTCTTATGGTTTTGGATGTAC
CTG

>Sequence 439

CTATGTACTACTCATCTCTANTCTGTATTGGACTACGTACTCGTGTTTCAT
AAATCTAATCCATCTTCTCTCTGTTAGTACGTACTTTGATTCTTATTGA
GTAGTCATTTTCATGTTTATATTTTATATCATATCGTATCNTATCNCANCT
TGTTTGTTCAGTCCATCTGGTGGCGGCCGAGGTACTCTGTGATTTACC
TAGATTTGGAGAAGGTGAGGGAGGAAAGGCTGTCTCTTTGATCCCATAC
CATGCAGGGGCAAAATGGCTGCCAGCATAACAAAATAAGAAGGAAAGAAAG
AAAAGTGGGCCAGGCGCAGTGGCTCACTCCTGTAATCCTAGCACTTTGGG
AGGCCGAGGTGGGCAGATTACTTGAGGTCAGGAGTTCAAAACCAACCTGG
CCATCATGGTGAAACCCCGCCCCACAAAAATACAAAAAATTAGTGGGGC
GTGGTGGTGATGCCTGTAATCCCAGCTACTTGGGAGGCTGAGGCAGGAG
AATCGCTTGAACCCAAGAGGCAGAGGGTGCAGTGAGCCGAGATCGTGCCA
CTGCACTCCAACCTGTGCGACAGAGCAAGACTCTGGGAAAAAAAATAAA
CATAAAAAAAGGAAGGAAGGGAAGGAAAGTGGCCTCACAAATGAT
TGCAACAACCTATTACAAAAAAGAAATGAAAGATGGAAGTCAAAGAAA
GAAAGG

>Sequence 440

TGGTGTATGTGCCTGACCCGGGGCGGCCGAGGTACGCGGGATGTCTAAAT
ATCTTGTA AAAAGTGTTAAATAAACAAACCCAGTCAATTA AAAATTTTG
ACTGTTATTGAGAAAACCTCAATGAGGGAAATAATAAGATCTATAAAGGT
CTTAAGAAAAATATAATTTGAAAAAACATGTGGCTGAGTGTGGTGGCTC
ACGCCTATAATCCCAGCACTTTGGGTGGCCTAGGTGGGCAGATTGCTCGA
GTCCAGGAGTTAAGACCAGCCTGGGCAACATGGCAAAACCCCTGTCTCTA
CAAAAAATTAGCCAGGTGTGGTGGGACACGCCTGTAGTCCCAGCTACTCA
GGAGGCTGAGGCAGGAGGATAGGTTGAGCCTGGAAGATCGAGGCTGCAGT
AAGCTGTGATCACACCACTGCACCTTAGACTGGGCAAAATAATTGTTTAA
TGATAAATGAGGTTCTCTGCCCC

>Sequence 441

CGGATGTGANNATTGATATAGCGACTCCACCGCGGNGCGGCCGAGGTAC
ATTGTAGCTTTGAACTCAGTGTTTAAAAATTCAATCTGGTTACACACTCT
ATCTTCTAGATCCCTTGAGACACTGTCTTCTTGAATAAGGGCCAGGTGA
AATGGCATTTCAGCTGTGGAAGGATTTTCTCCAGGGAATTCTTGGTGACC
TCACTCATGACTGCCCTCTGTGTCTCTGCTGTTCCGAAAAGCTGGTGACC
AGGCTGATTTGTTCTTCAGAAAGTCTTCTGTCTGCCCCCGCGTACTGTTT
CTGCAGGTTAAGGCAGGACTGGAACCTCCTCCACAGCTTGCACATAGTTTT
CAGATTCAACACTAACTTCTCCGAGTTAAGATGTGCCTGGGCAGCATAA
AGCTGTGCTTCTTTTGTCTTCTGCTTTTAAAAATGATCTTTGCTAAATC
CAGCATATCCCAGGCAAGCTCTAGGTTCCCAATCTCCTCCTCCTCATTTT
CTTGAAGAGACTTGTTTTCAAGGACTGAATCATTTGGCATTCTTTCAGTC
TTATCATTTTCTTTATCATCTCTTCCGAGCCTTCAGTTTCTTCAACCTC
TTTTCATCTGGTCTTCTCTCTCTTGGGGCTCTTCAATTAGCAGCTATCTGAA
CTTTGGCTTCAGGTGATTTCTCAGTAGCTCCCTGGGCTACCTTGGTAATA
ACCCCATCTCCAGCTGCCTCAAACTCTTTTACAGACAGCNTAGTCTCCTT
CTGACTGGGAACCAAGCTTTGCCCTGACTTCTNCTTTAGATCCG

>Sequence 442

CGGCCATCCGCATCATATCTGCTGTGATCCAAAGNTTTTCAACGTCACTA
ACTATGAGTCAAGTGTGTTGATCGGCTTNTCGCNCNAAAAANANNNAAGG
TGTGAAGTTTCGTATGCACTGCACCGGGGGCGGCCGCCCGGGCACGTA
TTGCTGCTGAGGAATGGAATCAAAAGAACGTAGTCTCCTGGTAACCACT
CAGATCTCTATTATTAGGCTAGATGTGGGGCGGGTACTCCCCAGCTTC
TTGCTCTCGACCTGCACTGTAAGTTGCCCTTCTATTAGCAGCCAAGGAA
AAGGGAAACATGAGCTTATCCAGAACGGTGGCAGAGTCTCCTTGGCAATC
AACCAACGTTGCTATGAAATATGCCTCACTGTATAGCTCATTATAGGA
CGTCAGGTTTGTGAAAAAAGTGGGCAAGACATGATTAATGAATCAGAAT

Table 2

CCTGTTTCATTGGTGACTTGGATAAAAGACTTTTTTAATTTTAAAAAAAAT
ATTCATGGAATAGGGTCCT

>Sequence 443

TGCTGATAGNGTCCTCACCGCGGGGCGGCCGAGGTACATGAGAGACACTT
TAAGCAGGCTCACAGGAATAGAGTGAGTGCAGGACTCAGATTGTTAAGCT
ATCTCTGAACCCATTCTACTGCGTTTAACTATTTATTGGTTTCTAACT
ACTACCACAGACACGGATACCTCACAGGTTCATTATTACTCACAGCGTT
GTGGTCCGGGTTTCATCGCCATCCTGCTCCACGCTGTCATAATCCTCACGC
ATCCGCGCTCGGGACCCCTCTTCTATAAGGGACATACAGGATCACC
AAACTCCTCCTTTCTCCATTGTTCTATGAGGTGGGTGGGGACTCCAAA
ACCCGTAGCTCCTGCCCTAC

>Sequence 444

TCGTTCTCATACTATTATAATTGTATTCTACTATCTTACATTATCGTATC
GTCTTAATGATTCTAGTATCTATTGTTCTGAATATTTATTATCATAAACT
AATATCNANNNNNNTGTTTGTATTCTGATCGGACTCCACCGCGGTGG
CGCCGAGGTACCCAGCCCCACCCAGGCAACAGCTCCGACATGTTTCGT
AAGTGAGACAAGCCAGTGCAAGTTTTTTTTTCTTTGTTTTGGGCTT
ACCTTCTTGCTTAATGGAAATTGTTATGGCTAAGCACATAGAAGGCCAAAA
AAGGAGTTTTTCAAACCCAGCAAATCAAGTGCTTGGATTCTGAACTGCCA
AAAGAAAACGCACTTCCCCTCTTAAGTAAAACGAAATGAGTTTCTTAGG
TAAATGTATTATCAGCCCAGATAAAAAAAAAACCAGTTATGTGAGCGTT
AGTCACTGCTCATTCCAGGAAGATCAAACAAAATACCAGCCCAGCCAGA
CTCACATGTGTGTATATATATAAAGCAAAGAGCCCCGCCACAAGCCA
GCAGCTGGGTGAAATATCAGCTGTCCACGCCGTGGTATTCCAATTCCGGG
AAATTACCTCCTTGGA AAAACTGGAAAAATTATTTGTGAAAAAAAACCT
ATTTGATAAAAGTGTTTT

>Sequence 445

TGACGATNAGATCGGAGTCCTACCGCGGTGGCGGCCGCCCGGGCAGGTA
CTTTACTAAAAATGACTGCATTCTTTGGATTCTTCAGTCTATGGTTCAAG
TCACTAAAGATTCATTTTTGTGAGTCCTTATGAGAAACAGCAGTATGAA
TCTTGACGGTTTCTGCCCCGCTAATGGCAGAGCTCTCTGACTTGGGTGT
ATGCTACCAGGCTGGGTTCAAGTGAGAAGTTCTGGTCAGTCTTCTGTGGG
TTGAAGGTTCAATATCAATTCTGTTTCAAAGCCTTTGTGATGCTATTTGA
ATCTTTGCTCGGTATATGCCACCCAGTGGTCAGTCTGGGACCTAGGTGGT
GAGCTATCCCATAGTTCATTCTCAACGTCTTTACTGCACTGTTTAGGGTC
AGATACACATATATATACAACTTTGGGTGAGCTCAGGAGTTTATAAGCTT
TATGGGCTTGGTGTGTTTGAATTTATAAACAGGAGTTTATAGAACTTTATGG
GTTTGCTTCCTTTTTCTGCCAGTTCCTTGTATTTTCCAGCCCTTAAAC
TCCTTTTGGGTCTGTGTTCCAAAGCTGGTCTTAGTTACCCTACTTGT
GACCAGTTTCACAGTGTG

>Sequence 446

TGATGATGATTCCCTNATCCGGTGGCGGCCGAGGTACGCGGGGAGACACA
ACTTCTGGGCTTAGATATTTTCAAGATATCACAATAAACTCTTAAAAAT
TTCTGAAGGCTGGACACCGTGGCTCACACCTATAATCCAGCACTTTGGG
AGGCTGAGGCAGGCAGATTGACTGAGCTCAGGAGTTCAAACAGCCTGG
GCAACATGGCGTAACCTCGTCTCTACAAAAAATGCAACATTTGCTGGGC
TTGGTGATGTGTGCTGCAGTCCAGCTACTTGGGAGGCTGAGGCAGGAG
AATCGCTAGAACCCATGAGGTGTAGGCTGCAGTGAGTCATGTTTGCACCA
CTGCAGTCCAGCCTGGGTGACAGTGTGTATTAGTTTGTGTTTTCATGCTGCT
GATAAAGACATACCTGAACTGGGAACAGAAAGAGGTCTAATTGGACTTA
CAGTTCCACATGACTGGGGAGGCCTCAAAATCACGGTGAGAGGTGAAAGG
CACTTTTACATTGGCAACAAGAGAAAAATGAGGAATAAGCAAAAGCAGA
AACCCTGATAAGCCCATCAGAACTCTATGAGACTTATCACTATCACAGA
ATAGCC

>Sequence 447

ATTATACTTACCTCTTAGATTTATTTATCTCAAGAATATATCGATTTCAT

Table 2

CTTTTATACTTANTTGTACATATTTTTTAATTATATATTCTATTTATTAT
TATACAAACNATCTAATGCGTTGTATCTTCTCCGGTGGCGGACGAGGTAC
GTTTTGTGACAGGCAATAAAATTTTAAGAATTCTTAAGTCTAAGGGACTT
GCTCCTGATCTTCTGAAGATCTCTACCATTTAATTAAGAAAGCAGTTGC
TGGTCGAAAGCATCTTGAGAGGAACAGAAAGGATAAGGATGCTAAATTCC
GTCTGATTCTAATAGAGAGCCGGGTTACCGTTTGGCTCGATATTATAAG
ACCAAGCGAGTCTCCCTCCCAATTGGAATATGAATCATCTACAGCCTC
TGCCCTGGTCGCATAAAATTTGTC

>Sequence 448

TGGGGATGTGCCTCTCTGTGGGCGGTGGCGGCCGAGGTACTTTTTTTTTT
TTTTTTTTTGTTAGTGTCTTCTGATGCTTTTTCTAACAAATCTTGCCTG
CCCAAAAGTCTCAAAAACATTCTCACGTTTCTAGATTTTGTAGCTTAGCT
TTTGTGTTTGGGACTATGATCCATATTTAGTGAATTTATTTTTGGGGGG
CAGAGTCCATGTTGCCCAAACTGGTCTGGAACCAACACCCAGCTAATT
TTTGTGAATTGCGGGTACCAGCACACCGGCCCGCTCTGGACTGCGCCTT
CTACGATCCAACGCATGCCTGGAGTGGAGGACTAGATCATCAATTGAAAA
TGCATGATTTGAACACTGATCAAGAAAAATCTTGTGGGACCCATGATGCC
CCTATCAGATGTGTTGAATACTGTCCAGAAGTGAATATGATGGTCACTGG
AAGTTGGGATCAGACAGTTAACTGTGGGATCCCAGAACTCCTTGTAAATG
CTGGGACCTTCTCTCAGCCTGAAAAGGTATATACCCTCTCAGTGTCTGGA
GACCGGCTGATTGTGGGAACAGCAAGCCCGATAGTGTGGTGTGGGACTT
ACGGAACATGTGTTACGTGCAACAGCGCACGGAGN

>Sequence 449

GANTTGTGCCTCTCGCGCGCGGGGCGGCCGGGTACAAAAAGCAGGGGCCC
AGCCCCAGCTGTTGGCTACATGAGTATTTAGAGGAAGTAAGGTAGCAGGC
AGTCCAGCCCTGATGTGGAGACACATGGGATTTTGGAAATCAGCTTCTGG
AGGAATGCATGTCAAGCGGGGACTTTTTCAGAGAGTGGTGCAGCGCCAG
ACATTTTGCACATAAGGCACCAACAGCCCCAGGACTGCCGAGACTCTGGC
CGCCCGAAGGAGCCTGCTTTGGTACCTGCCCCGGCGGCCGTCGATCTCCT
TGTGTTCAAGCACTTCTTGGCGGTAGTCTGAAGCGCCTTATCTTAGGG
TCCGCCATGATGAGAACCCCGCGTACCTGCCCG

>Sequence 450

TGGGATTTGCCCTCCGGGGGCGGCCGAGGTACTCCCTACGGCACTAGTC
TACAGGGGGAAGGACGCTCTGTGCTGGCAGCGGTGGCTCACATGGCCTGT
CTGCACTGTAAACCACAGGCTGGGATGTAGCCAGGACTTGGTCTCCTTCCC
GCGTCAAGAGATAGAAAGACCAGTCCCTTGTAAGACAAGTCTGAATGCT
CCACTTTTTCAATTCTCTCTCCATTCTTCAGTAAGTCAACTTCAATGTGC
GATGGATGAAACCCAGACACATAGCAA

>Sequence 451

TGGCACCGTGCGTCTCCGTGGTTCGAGCGGCCGCCCGGCAGGACAAATGAG
TTTAGAAATGTTGTATAAGGCTGATCTGGACCCAACTAAAAACAACGTTA
ATCCTCTTCAAACTAATTTAATATAGGGAATAAGATTATTGAAAAA
TTTTTTCTGATTTTCTTTTCTGAAAGTTTTTTGTAGAAACCATGG
TAAAAAGGGAAAAAGAAACCTTTGACTGGCGGGGGCAGGGGGAATACAAA
AAAAATCCCTTGATTTTTTAAATATACTTGAATATCAAACCTCAGAAAGA
GTTATTTTTGTGAAAGAGGCAAAATTGGTCTTGAGCTGCTTCAGTCTATG
TCTGAAGGTTTTACTGAAATTATGGTCCAGTTTTAGGAGAAAAATTCACA
GAAAAGTCAGATTGTAGATTTTGAGAAGGAACTCTGAGGTGGTGATTTT
CTCCAAGGTCATGGTTATGAAGCTCAATGAGGGCCTGAATTGCTTCTTCC
ACAGATCCCAATTGAATGAGCGCCATTTTGGGATCTTTCTGAAAGAATTT
AAAAGCCTTCACTGAACATCCAGCTTCTATGAAAAGGTTCTTCAGATCAT
CCACTGTAACAGAAGGGGGAATGTTGGAAGATCAGAGTGGCT

>Sequence 452

TGGTTATGGACCTCACCGCGTGGCGGCCGCTAATGTTAGAAGTTAAGTTG
GAACCTATATTGTAGAGGAACAAAAGCCAATCAGTGTCTTTTGTCTTT
TTTTACATAAACTTTTACTACAAAAATTAATATATGGATTTTGAATTTCC

Table 2

AGTCAAACCAAATTGTAAACTGTTTCATTTGGTTCTATATTATGTATAC
ATAATTTATCTATTATATATTTACATTAAATATATGCATATATAATGGA
TTTAATTTCTTTTGGCACCCCATATCTAGAAGTCTCTTCATAAAATTAA
TAAATAATCTAGGGCCAGCATTATGTTTGCTAGACCTGGATTTGGCTCAA
TACTTAAAGTTAAAGTTTCTGTCTTTTCTTGGAATTGAAACTGCCTA
GAGCGTCAGTCTCTCTGTTATTTTTTCTATTTCTTTTTCCCCATCAG
TCTTTTAGCCACTTGAAGCCAAAATTCTAGTTTCTGTCTAGTCGATAA
GAGTAAAAGGGGAAGGAGGAAAAGGGTCCAGTGCCACTGGACAGTCACCT
CTCTCTGGGAAGGACCCATTACAAGACAATGAGTCCCTCTACTTTTTAT
ATTTCTATTTACATAAAATCTTTA
>Sequence 453
CTTTATCCCTTATATACATAAAATATTATTATTGTTAACACAACCTGTTATA
TATAACATTATAATATAGTATACTCTATTTTGAGCACAAGATGATCTCTC
ATCCANNNAAGGGTGTTGTTAGATTCCATTCCCCGCGCGGGC
>Sequence 454
ACCACGCCTCCGCCACGTGTTGTCATTATATCTCCTGATCGCGATCTACC
CTCTATCCTACGTATCGACATCGGGCAGCATTCTATAGGAGTTGGTATCT
ATTATACTANTANATANAAGGGCCGGCGTCACGCTCACTATAGCCGAAGG
NGGACGNCCGGCCAGGNACGCGGGACCTTTACGGGGCGGGGGAGCTGA
GGCTCCTGCCGACATCTCTGATCCTTGACCCCTGGCAGGAAGCTGGTCGC
GGGCACTATAACGGGAGGCCTCCACATATTCAGAAAAGAAACCACTCTG
CAGTGCCAGACTGGAAGAAGTAACGGTCACTCTGAAAACAGGGGGGGAGA
GCTGCCTCCCTTTGAACCTCTCCAGGACCAACTCTAACCAGGGAGGGG
AACTTGGTCGGTGCAAGCGGTGGCTTGAGACAGAATCATCTAATGAAAA
AGATACTAGAAAGGCGTGGGGATACATCAGAGGAGAGGGATACTCAGC
CGGGCTCCGTGGATGAAGAGAATGGCCGACAGTTGGGCGAGGTAGAGCTG
CAATGTGGGAATGGTACCT
>Sequence 455
CCACCCCTTATACCAGTTTACATAATGTTGTTATTTTGGTTTTCTCCTA
CATAAGTAGATCTTCTCATATTCTTCTCAATCTCTATATTCTACCTGTAA
TATCTAAATCNTTGTTCGTTAGCTGGTGCGCACCCGCGGTGGCGGCCGC
CCGGGCAGGTACGCGGGGAGGATCTCTGTCTTTTGTTCCTCACCTGTCT
GCCTGTCTCCTCTCCTTTCTGCTGGGGGGACTGTCCAGAAGACATCAT
CGTCCAGTTCTCTGCAATTGAACAGCTGATCCCCACCCCTCAATACCG
TTTAGAGCAGAAGCCAGCAATAACTAAACGGTCAGGGACAGATAGAAACT
ATTTTCGGCTTCATGGGCCACACAGCCTCATTTGTAGCTTCTCAAATCTGC
TGTTGTAGCAAGAAAGAACCATATACCCTGTGTAAACAAATGAATATGG
CTGTGTGCCAATAAAACTATTACAAACATAAAGAGTGGGCTGGATATGA
CTCAGATACTGTTGTTTGACAACCCCTGATCTAGAGTAAAAATTCAAAC
TCTATAGCCTCCAGCCTGGGAAACAGAGCGAGACTTCGTCTTAAAAAAA
TTAATAAATATATTAATACATATGAAAAAATATATTGAGCTGGGCGTT
GTGGTCTACTCTTGCAATTCCAACACTTTGGAGGCTTAGAAGGCAATCACT
TTAGTTAGGGGACAGAACAGCCTGGTCACATGGTGAAACC
>Sequence 456
AATCCTATTCTCTCATTGCTGGTTCATAATATAATATTATATATGTCT
CTCTCATTCATTGTAATTTATATTATAGTAGTATGTAATTGCTGTAATA
TCTACATAANTTTTNNINTAATAAGTGCACTTTGGCACTTTGGAAGCGC
TTCTCCGGAGGGCGGCCGAGGTACAACATGACATTTTAAACCAATCCAAT
CTAAAAATGTGCCAGAATCCACCTGTGGCCCGAATCGTGTTTGGTTCTC
TTTCTACTCCACTGCAGATGACCAAACCTGTCCCGCTGCCACTTTCTCA
CTGATATTGGGAGGAGGGCAAGGCCAGCCGAAGTTCCACTAAAAATGCC
CCAGGAGAATAGGCACCGGCTGGCTTGCCAAAGGGTTTGGGTTTTATTGC
TTTCTGTTTTCTTTTTCCGACAGCACAAAGAAGTAAGGGCAGTTATTG
GACAGGTGTTATTTAAACATTCTATTGTAAATGAATGTGTTGTTGGTTC
TACTGCATTGTGGAGCATGCGGGGAAGAGAAGTACCCAGGTAATGAAA
TGGAGCCCTTCTGGAACATAACCAGTCCTTGATGTTGTGTGACTAAAGT

Table 2

AAAGATGATAAAACCCCATTTGCTGGGGGTGGTACTTTACACTTGGGTTG
GATTGGGAAAGCTTTCCATACCCTTGGCCATTCCCTTTTTCTTTTTTT
CAACCCCATTTTTTAGGAAGGGATTGTTAACAAAAACCTTTCTTTTAA
CCTTTTTT
>Sequence 457
TGCCGTTTGAGTCGACTCAGGGGGCGGACGTATATTACTGTGCGAGAGGT
AAAGGATATAGTGGCTACGATTACGGCCTCTCT
>Sequence 458
GGAGAGTTGANNCANNTTTGGGAAGCGCTCCCCGCGGTGGCGGCCGCCCG
GGCAGGTACAGACAAAACACTACAGACTTAGTCTGGTGGACTGGACTAATTA
CTTGAAGGATTTAGATAGAGTATTTGCACTGCTGAAGAGTCACTATGAGC
AAAAATAAAACAAATAAGACTCAAAGTCTCAAAGTGACGGGTCTTGGTT
GTCTCTGCTGAGCACGCTGTGTCAATGGAGATGGCCTCTGCTGACTCAGA
TGAAGACCCAAGGCATAAGGTTGGGAAAACACCTCATTTGACCTTGCCAG
CTGACCTTCAAACCTGCAATTTGAACCGACCAACATTAAGTCCAGAGAGT
AAACTTGAATGGAATAACGACATTCCAGAAGTTAATCATTTGAATTCTGA
ACACTGGAGAAAAACCGAAAAATGGACGGGGCATGAAGAGACTAATCATC
TGGAAACCGATTTCAGTGGCGATGGCATGACAGAGCTAGAGCTCGGGCCC
AGCCCCAAGCTGCAGCCCATTCACAGCACCCGAAGAACTTCCCCAGATGG
TGGGTCTGGAAAGGACATTTGAAGATGTTGCCAAGGGGAGAAGATCACGA
AAGAAGAGTACAGCCCTAGAGGCAAACCTCTTCAATCTCTTGATN
>Sequence 459
GGGGATAGTCNGAATCACGTGGCGGCCGCCCGGGCAGGTACGCGGGTAGT
GAGCTGGTTAGTGAAGGCTTTGTAGCTGAGCAGTTTCTAAATAACACAGC
CACTCAACTGACATACCATGGATTATGTGAATAACTTCAACGGTTCAGG
AAGGAGAACTTTGTGTGTTCTTTTCGGAATAATCATTTTAGCACCATGACC
AAATACAAGGGTCAACTGTATTTGTTGGTAACGGACCGGGGTTTCTTAC
TGAAGAGAAAAGTTGTTGGGAAAGCCTACACAACGTAGATGGTGATGGAA
ATTTCTGTGACTCAGAAATTCATCTTCGACCTCCTTCAGATCCTGAAACT
GTATACAAAGGACAACAAGATCAGATAGATCAGGATTATCTTATGGCATT
ATCTCTACAACAAGAACAGCAGAGCCAAGAGATCAATTGGGAACAAATCC
CGGAAGGAATCAGTGATTTGGAAGTAGCAAAGAACTCCAAGAGGAAGAG
GACAGACCGGCTTCTAATACTATCAGGAACAGGAACAAGCAGCAGCTGCT
GCTGCTGCTGCTTCTACACAAGCTCAGCAGGGCCAGCCAGCACAAAGCCTC
TTCATCAAGTGGAG
>Sequence 460
TAGACTTCAGGGAACAACACGTCCTGAAAGAAAATGATTCCCCTCAAG
CCACAAAGGATTTTCTCATCAAGTGTTTTACCTCTGCATTAGATTTGGA
CACAAGAAGAGGAGAGCATTTACTCAGGTAAAAATAGTTCTCTTAGTCTC
TTCCTCTAGTTACTAATTTTAAATTTAAAAATACAATTAAGTATCTAGC
TGATAAAAGTACAGACAGAAATAAGCTAAGTTCTCTCTTCTTTAGGGA
ACGCTGGTGGCAATTCACCATATAAACTGGATGGAAGAATTCTCCAGGG
ACAT
>Sequence 461
CTCTTACCCTCGTCTCACTGTACTGATAAACATTTATCTTGCTCACATGT
ATATTTTATACTCTATCTATTGTCTGTAACCTCTCAAAATGCACTGAAGA
TTATTGTAGTAATAGTGATTATGTTTCTCTGTATAATTTGGGGGTGATTC
GTATCAGTTGCCGTCGTCCGGCAGGAACGCGGGGGCTGTCTACCTGGAGT
TCTAGCAAGTCGGCCAGGATGTCTAAGGCTGAGTTTGAGAAAGCTGCAGA
GGAGGTTAGGCACCTTAAGACCAAGCCATCGGATGAGGAGATGCTGTTCA
TCTATGGCCACTACAAACAAGCAACTGTGGGCGACATAAAAAACAGGAACG
GCCCCGGATGTTGGACTTCACGGGCAAGGCCAAGTTGGATGCCTGGAATG
AGCTGAAAGGGACTTCCAAGGAAAGATGCCATGAAAGCTTACATCAACAA
AGTAGAAGAGCTAAAGAAAAATACGGGATATGAGAGACTGGATTTGGTT
ACTGTGCCATGTGTTTATCCTAAACTGAGACAATGCCTGTTTTTTTCTA
ATACCGGGGATGGTGGGAATTCGGGAAAAATAACCAGTTAAACCAGCTACT

Table 2

CAAGGCTGCTTACCATACGGGTCTAACAGATTAGGGGCTAAAAACGATTA
CTGACTTTTCCTTGTGTAGTTTTATCTGAAATCAATAAAAAGGGGATTGGT
ACCATAAAATCTTTCTTATTCTTGTCCCTTGGCCGTTTAA
>Sequence 462
GAGGTAAATCNGATGCCTCCACCGCGGTGGCGGCCGAGGTACGCGGGATA
TTGTTTCCTGATTTGCTGATGTGTGGACGGATCACCAAGCGAGTGACACG
AGAGCTCAAGGACAGGCTACAATACAGGTCAGAGACAATGGCTTATAAAG
GTTTAGTGTGGTCTCAGGATGTGACAGGCAGTCCAGCCTGACCTTCTGC
ACACTCCAGACAAACTTCCAGACAAGCTCCTTGTGCCTCTACGTGGAG
AGGGCGTGAAAGTTATCACATTAAGATGGAGGATTAAAAAATAAAA
AAAAAAGTACCTGCCCC
>Sequence 463
AATTACTCTACAGTAAGGACTGTAAGTACTAGAAATTATATGTATGTACA
GATACTACACTATNGATTTATACTAAGTTTATTAATCAATTTACGAAT
TAGATTATGACATACTTATGGAGCTAATTTATTCCTTCACTAGTTTA
GTTGGTTTGATTGAGTCNTCTATCCGGTGGC
>Sequence 464
TGCACGATGATTGGAAGCCCTCACCGCGGTGGCGGCCGCCGGGCAGGTA
CTTT
TTTTTTTTTTTTTTAAACCGCTGCCACCACCATGAAAGAGGGGCCACCAC
ATTTTTATTGCATACTCAGGGGAATACTTATTATACAATGAACACTCCT
CCATTAGGAGACCATGCCCACTTACAGAATGCAGCCGTAATGCGGTAAA
TCTATTTACAGAGGTTGGGGTGCAAGATGAGAGAAGTATCACCCCAAGGA
ATTTGAAGTGAGAATGATCTACAAATTCTCCTGACAAGGAGCAACCGGGC
TTGTGCTAGTGAGGGCTGAAAAAATTCCTGGCAAAACGTAGGGGGAGATT
AAATCTCGGAATTGACAGCAAGTTTGGGGACAGTGCAAGAAGAGAGGGGT
GACCTGTGAAATGGGGCTGGGGAACTTCTTAGGCCCCAAGGGGGGGCAGC
ACTTGAGAGATGAGTTAAATTTAGGGGTGATCTTTAACCCTTTCCACCCC
AACCAAAAAGGTTTGGGAACCGGGGGTCCCAAAAGTTGGTTTCCAAGGA
AAATAAGG
>Sequence 465
TGAGGTATTAATCCAAACCGNGTGGCGGCCGAACGCAGAGAAGGTAGAAG
ATAGCACCATGCCGATTTCGTGCAACTGTGAATTCTACCCGGGAACTCCT
CCCAAAAGCAAGCTTGCTGAAGGGGAGGAAGAAAGCCAGAACCAGACAT
AAGTTCAGAGGAATCTGTCTCCACTGTAGAAGAAAGAGAATGAACTC
CACCTGCTACTTCGAGTGAGGCAGAGCAGCCAAAGGGGGAACCTGAGAAT
GAAGAGAAGGAAGAAAATAAG
>Sequence 466
TGGGCTGATGGCTTACCGCGGGGGCGGCCGAGGTACGCGGGGAGGTCCGT
GCGCGCTTCTCCCGAGGTGGAACGGGCGGCAGTCAAGCGCCGGCGTTCTC
TGCCGTACCCCTTTCCTTGC
>Sequence 467
GGGGTGATGACTCATGACTATCCCGCGGTGGCGGCCGCCGGGCAGGTAC
TTTTTTTTTTTTTTTTTTTTTTTTTTTGTAGACAGAGTCTTGCTCCATCACC
ATGCTAGAGTGCAAGTGGAGTGATCTCGGCTCACTGCAACTCCGCCTTCT
GGGTCAAGCTATTCTCCTGCCTCAGCCTTCCAAGTAACTGGGATTACAG
GCACATGCCACCACGCCAACTAATTTGTATTTTAATAGAGACAGGGT
TTGACCATGTTAGCCAGGCTGGTCTTGAAGTCCATCAGGTGATCTGCCC
TCCTCAGCTCCCAAGTGCTGAGATTACAGGCATGAGCCACCGCGCTGG
CTGATTGTGTTCTTTCTCACAGATTTGTTTCTGTTTTGTTTTCTGA
ACACTCAGCTGGACTGCATTTCCAGCTTCCCTTGCAAGTAAAGTCAAAAG
TAGCGCTGTGACTGGGTCTGCCCCGTAGAAGGTAAGCAGAAGTGATGTG
TATCACTTCTATGTGTGGCCTCCCAAAACCTCTAAAGGTTATGTTCCCT
CTTTTCCCATCTATGGCCTGNAAAGTGAAATATTATGGAGCCTTTTGCT
GAGACACCCCGGTACCTCGGCCGCTCTAAACTA
>Sequence 468

Table 2

TCGGTGTGCTGTGCTCATCTGTCTTCCAAAGGAGGAACAGATCGGCAAGT
GCATCTGACGCGTGGCCGACAAATGCTGTGCGAAGAAAGAAATAAAAAACCC
TGAAACATGAGCGAGAGTGATCGAAACGTGTGGAAATGCCTTCTTAAAGT
TTATAAAAGTAAAAATCAAATTACATTTTTTTTTTCAAAAAAATAATTTAA
AACTAAATGTACCTTAAA

>Sequence 469

GCGATTGGAGCTCCACGCGGTGGCGGTGCGAAGGAGAATGGTATCACTCA
GGCTCTCAGAGTGACACTGAAGCAAGACACTCATGGGGTAGGACATGACC
CTGCCAAGGAGTTCACAAACCACTGGTGGAAATGAGCTCTTCAACAAGACT
GCGGCCAACTTGGTAGTGGAAGTGGGCAGGATGGAGTACCTTCAGGATT
GGCCTGTTATCTTCTTTAGAACTAAGTTCATCTTAAAAATTTAAGAAGGT
GGACATTTCACACCATCAAGTGCATTTAGGTGACATGTTTAAGTTAACT
TGACTTCCTTGAATGACCTAGTTAGTAACTAGTCACTAGTAATTCGGTC
ACCAAGCAAATCAAGCCTGCAAGAAAGGAAGCCAATATTCAAAATGCCAT
GTTACCATCTAAACCC

>Sequence 470

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTAAGTATTTTATTGTCTACCTC
TCTGGACTTGCTCCCAGCATCCGGACCAAAACCATCAGTGCCACAGCCAC
GACAGAAGCCGAACCGGAAGTTGACAACCTTCTGGTTTCAGATGCCACCC
CAGACGGTTTCCGTCTGTCTGGACAGCTGATGAAGGGGTCTTCGACAAT
TTTGTCTCAAAATCAGAGATACCAAAAAGCAGTCTGAGCCACTGGAAAT
AACCTACTTGGCCCCGAACGTACCTGCCCC

>Sequence 471

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTAAGTATTTTATTTTATTTT
TGGAAGACACAAAGATTGAGACCACAGCCTACAGGGAGAGAGGATTTCT
GAGGATGGTGGTGCATGTGAGTCCACGCAGGCCTCCTGGGCATAGGATG
GAGCAATTCTATCTCAGCTCAGGCCTAGCACAAAGGGCTTCAGTAAACCA
CTGGAGTTTCTTCAATTAGGATTCCATCCCAGGATATCCAGAGGACAAGA
GGCTGGCCAACTGCAGGATTAGCCTATGCTCCCGTGTGGATATAGGCTA
CACGCAAGAGAAAGCTTGGGTGGGATCTCCTGATCCCGGTACCTGCCCC
>Sequence 472

ACTCACCTAACTTATATTCCTAGTTTATTTAAGTTATATTGTTACATATT
AACAACTACTGATATCTGCTGACTAAATATCTACTACACTTCTCATACAC
TTCAACACTCCTATATATTTATTTGATCTAGTGATATTTTATNNAANN
TCAGTTNGGTATGCTGATCGCGTTGCGGGCGNCCGGGCAGGTAAGTATGGG
TGAGTGTTACTATTACAGTTAATTCGTCCTTTGTGTGCGCTGATAAATG
CAGTGAGGATTGGAGCACTGTCCACTGAGTCTCTGTGCAACAACCTTATCG
GTGTGGCAGGGGTTTCCGGTGTCTGGCTCTGATCTTGGTCGCTGGATAGT
CGTCTGTGTTTTTCGGTGCCCAAGGCGACGGCTTTGGTATGGGTTTCGTG
GCGGGGTGGTTGGCCAAGTGCTGTCTAATAATTTCAAGGAGAGGATACTTT
GTTGCTGCTGCAGGATCAGCCATGGTAGATTATGGTTTTTGAAGACAGA
TGGGGCACACAATTTCTAGTGTGCCCATTTAACAGGGTCTTTCAAAGTAC
CATG

>Sequence 473

TTTATATAACTTATTCGTTCAATCTATTTATTATATCTCTCTTATATACT
CATTTGCTACTTTAATATCATACTTGTTATAATTATTCATACATATTATA
ACAANACCGATGCATGTTTCATNTANTTANGCAGCACACCACCGCGGTGG
CGGACGAGGTACAAAATAATTATAATGTATTAACTCATACTGCCTGTCTT
TTATAGGGGAAAAAATAACCTTTTTTATTTTAAAGTTATAAGGTGGGTT
ACCTTTTAGTTGCTTGGATGACAGGGAATTAGCCTACCCATTTTGGTCT
GGAACAGAAGACTTTCAAATTTAATATGGCCCAAGTGTCTTCTACTTAA
GTGCAAGATCATGCTATGTCAAGTTACCCAAGCTGGAATACCGTGACACGA
TCGTGGCTCGCTACAGCCTCCATGTCCCAGGCTCGAGCAGTTCTCCACC
TCAACCTTCCGAGTAGCCGGAACCACAGAACCACAGTCTTCTCATTTTGA
AAAGACATGCTTTTTCTTAAAGCAACAAAGGTGGTAGAGGAAATTTCTTA
AACTTTCTCAACGAGTCATGTAACGTTACACTGGCCTTCATAAAGCACCG

Table 2

TTTAAGAAAGGCCTTTTTTTCATCTTTTATACTATATTCTGTTCTTGGCC
TGGGGGGCCTTTTTTAAACTAGTGGATCCCCCGGGTGTGGGAATCGTT
TTCAGCTTTATTTTACCTTCCACCTTAAGGGGGTGCCCGGCCCACTTT
GTTCCCTT

>Sequence 474

TGCAGATGGAGCNTNTACCGGGGGCGGCCGCCCGGGCAGGTACGCGGGGG
AGCTGAGCCGGTGGGTGAGCGGGCGGCCACGGCATCTGTGCTGTGGGGGC
TACGAGGAAAGATCTAATTATCATGGACCTGCGACAGTTTCTTATGTGCC
TGTCCTGTGCACAGCCTTTGCCTTGAGCAAACCCACAGAAAAGAAGGAC
CGTGTACTTCTAAAATTGCACTTTATGTTTTGTAGGCTTGGAGCTTCTTG
ATTATGGGTTTTTTTCGTTACAAAATTCAACAACAGAATCAATACTTTGCA
TAAACATTATGGATGCTTTTTCTGTTTGTACCT

>Sequence 475

GTACGATTGAGCCNTTTTGAAGCCGCTCTCCCGCGGTGGCGACAGGGTT
ACATTGGTAAGGGTGACAGTTAGAAGGGGAAGTCCTTTTAGTGAAATAGA
TGAGAGGTTTTAGA

>Sequence 476

TCTCTCTCATCTCCCACTTTTCACTCTATTGTGACTAACACTCTTTTCTT
TCATCTCTTAACGATCTCGTTTACTCTATTCTATATATATGATTATTCAT
TCATCTTTINATCNCTTGGAGTGGANCTTTGGGAGGCCTNTCCGCGNGGGC
TACACGCTAGGAACCTTGCAGCTTACAGTGACAGAGCTCCCATTCACGAG
GCCACCACTCATCTCGATTTCTGGATCTCTAGGGAATGAGTAGAGCTCCA
CCTGGATTCCCTTTTCCAGTTTCTTATGTCCACAAGTCACTGTGCACAGA
TAAGAGTGTTCTGTTCTCAAACTCACAGGGCTCAGGGTCAGCGTGGAATT
GGTCCCCTTCACTCCTCACCTTCCCGCTCAGAGGGCTGTCTATCTGGGTT
CTCCAGGAGAAAGATGGGGATTACAGCCCATGACACCTACATGTCAACA
TGACTGAGTCTCCAATCTGAGCAGCAATCCGGGTCCAGGGGAGATCTCA
ACAGTAAATGGTTTCTCTTGGACAAAATTAATTCACCTCTTTTCTGGTTT
TCCCCAATCAAAATTAACCTTCTTACACCACATTAATTCAGAAATCTT
CCATCCTTATAACAATTAAGTGGAGAGTTGGATTTCAGAAAGGTGCTT
GAAATTCCTATAATCTAAATCTTACTCCAAAAAATTTTGGGAGCTGGAG
ACCCTTGCTTGGACCAGGCAATGGTACGGAGCCCCCTTTTGAAGTTGGG
GGAGGGATCACAGAAATAACN

>Sequence 477

TCTCTTCTCTCGTTTTTCTTTCGTCTTATCTTTAGTCTTCTTCTTTCCA
CTTGCTTCTTTTTTTTTTTTTTTTTTTGTTTTAGTTATACATTATNTN
NTTNTTGTCTTTGACGACTCCCCGCGGCGGCGGCCCGCCCGGGCAGGTACT
TTTTTTTTTTTTTTTTTTTTTTTTTGGCAAAAATATTTATTAATGAT
TTTTTTAAGTTTGAACCTTATTGGAAGGAGTCCCTCTAATTCACACTTTC
ATCCTAGATAAATGGGTAAGAACCACATATGGAATATAAAGCATTGATTT
TTTAAAAACCACATAGTAGCACAGTGAAAGAAATGCAATTCTCCAGGGTC
TTAGAGAATTCAAAGGGGCATCTTAGGTGGTCTAAGAAACCAATTACAGT
CTCATGGTTTTCTTTTGGTTCAAGATTAGAAGAGTCAGGTTACCACTAC
CTGTTTTTAGAGGTAGAATATGAACCTTCTACTAGTCCACAGTTTACTGG
TCAGGTGGCCCCAACAGGCTTTTATCTTAGCCCCATCTGCCTTTAGGGTG
GCCAGATGATCTCTATGTCCCAAGCAGCAAGGCTTCTGCTGATCTCTAC
TTTAGATCCATGAACCGGTTTTT

>Sequence 478

GTACGATTANCCNAATATGAGCCTCCTACCGCGGTGGCGGCCGAGGTACC
TGCATCAGGGATAAGAACCATTCCCTCCCTTGTTCGGGTGTGCTCTCG
CCATTGCACCATCCATGAGACGCACTCTTGATAGAAAGTAAAAATTGCCTT
GCTGAGAAAAAAGTACCTGCCCC

>Sequence 479

TGCCGATGATCGGAAGCCTNACCGCGGTGGCGGCCGAGGTACGCGGGGGG
TGTGGCCTGCATCTCAGCTGGCCGCATCAGTGAAATAGAGCTTAAAGT
CATGGTTTGGCTGCATAAAAAATTTCTAAGTTGGGTTGAATATTTGTAGC

Table 2

GAAGTATCTGTTTTTCAATTTTTTTTACGTTATAAATAAAAAATACTATGCTG
GCCGGGCGCGGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCCAAT
GTGGGTGGATCATGAGGTCAGGAGTTCAAGACCAGCCTAGCCAAGATGGT
GAAACCCCGTCTCTAGTAAAGATAAAACAAAAAATTAGCTGGGCTTGATGG
CATGCGCCTGTAATCCCAGCTACTCGGGAGGGTGAGGCAGGAGAATCGCT
TAAACCCAGGCGGGGAGAAGGTTGTAGTGAGCCAAGAATGGGCCTATTGTA
CTTTCAGCTTATCAATAGAAAGGGAGACTGGCACCCCTTTAAATTACCTTT
CAATAAATTGGTCCTTGCCCGGGCGGGCGCTTTTAAACTAAGGGAACCC
CCCCGGCTGTAAGGAATTCGATATTAAGGCTATTCAAATACCCGCGGCC
TTCGGGGGGGGCCGGGTCCCAATTTTGGTTTCTTTAGGGGGGGATATC
CGCCCCGTGCG

>Sequence 480

TGATGAGTCAGCTCACCGCGGTGGCGGCCGCCGGGCAGGTACAGATGCA
AACGGAGGTGTAGACTGTGCAGCTGCCAAAGTGGTGACAAGCAATCCAGA
GGACCATGAAAGGATCTTAATGCAAGTCATGAACCTGAATGTGCCGATGA
GGCCTGGCATTCTTGTCCAGAGACAGAGTAAGGAAGTGTTGGCCACACCC
TTAGAAACAGAAAGGACATGGAGGCAGAAAAAAAAAAAAAAAAAAAAA
AACGTACCTG

>Sequence 481

CCTCCACCTTCTTTTTTTCATTGTTCAATTTCTCTATACCCGACCTCTTAT
GTTTTTATCTTTTCTATTATACCTCATTTAATAATATTGTTCTTCTTTT
TAAGTNNNNNNNANNAATTAATTTGTTTCGATTCTCCGACGCGAAAATGTGT
AATGTAGAAGGCGAAGCCTCTATGTGTTCAATAACCCAAATTTGTTGATG
TTTTGTGGCCAAGGTGAGGGCTGCAAGTGTTTTCTAAGGGTTGAAACATC
AGAATAAAGGTATGGTGGCAAGTCCTCCTTCTGCTAGGCTGGCTGGCAAG
GCCCTATGTCTTGACCTAGGTGGTAGTTACAAGGGTATTTATTTGCCTTA
TAATAATTCATAAACTATGATTTGAGTAGATTTTATGTGTGTGCTTT
AATTTACAAAAAAAAAAAAAAAAAAAAAAGGTGCCTT

>Sequence 482

CTGAGAGATCCCCTCATAATTTCCCAAAGCGTAACCATGTGTGAATAAA
TTTTGAGCTAGTAGGGTTGCAGCCACGAGTAAGTCTTCCCTTGTTATTGT
GTAGCCAGAATGCCGCAAACTTCCATGCCTAAGCGAACTGTTGAGAGTA
CGTTTCGATTTCTGACTGTGTTAGCCTGGAAGTGCTTGTCCTCAACCTGT
TTCTGAGCATGAACGCCCGCAAGCCAACATGTTAGTTGAAGCATCAGGGC
GATTAGCAGCATGATATCAAAACGCTCTGAGCTGCTCGTTCGGCTATGGC
GTAGGCCTAGTCCGTAGGCAGGACTTTTCAAGTCTCGGAAGGTTTCTTCA
ATCTGCATTTCGCTTCGAATAGATATTAACAAGTTGTTGGGTGTTTCAAT
TTAACAG

>Sequence 483

TCTTATCTTCATTCTTAGTCTAGAAATTTATTTGATCTGAGTTCCTA
ACTCTAACTTATTCTGTTTCTTCAACCATGACAACTTTGGCGTTGGTTAT
AAAATNATATATTTTTTCTTTTNCNNNATNATANACAGGGNNGTTGCTG
ACATTTTAGAAGCGCTCCACCGCGGTGGCGGCCGAGGTACTCTTCAAAAT
TGTCAGGTCATGAAAGACAGCAAAAAGTGAAGAATCTTACAACTAGA
GGAGACAAAGATTGGAGAAGAAACAATGACTGGCTGGGCACGGTGGCTCA
TGCTGTAAATCCACTTTGGGAGCACTTTGGGAGGCCGAAGAGGACAGATC
ATCTTANGTTGGGAGTTGGAGACGAGCCTGACCAACGTGGAGAAACCCCA
TCCCTACTAAAAATACAGAATTAGCTGGGTGTGGTGGTGCATGCCTATAA
TCCAGCTACTTGGAAAGGCTCGGCAGGAGAATCACTTGAACCCGGGAGG
CATAGGTTGTGGTGAGCCAAATTCGCCATTGCACTCCAGCCTGGGCAA
CAAGAGCGAAATCTGTCTCAAACNATAAATAACTAAAAAAAAAAGTACCT
GCCCCGA

>Sequence 484

GGAGATGTGAACAATGTGTCAATTGCTCTCAAGAGAAGGATGTGGATGGCC
TGGACCGCACAGGTGGTGAATTCGAGGCCGGGCAGCCCGGTTCATTAC
GTAGTCACCTCAGAGATGGACATCGAGCGGCCGCCGGGCAGGTACACAA

Table 2

GCTTTATTGGGCAACAGCAACGAGCCACGCTGGCAAACAATGAAAGTAGA
GTCGCTCAGAAACACGAAAGATCATATGTGTGTCATCACAGCATCGAGAA
TTTAAATCATCTGGAAGTTCCTGCTAAATTAAAGCATACTGTGCCAGAGC
TCCCCTCTAATCAAAAAACGCTGCTGCTGGTGAAAAATTTGCAATGAGGATT
ACAGAGAGAGAGATCAACCAGTGAGGAAATCACAGACTTTACATGAGTT
TACAGTTAACCCCACTGCACAAAATAATAAATTAGCCATAATTTGGTTTT
TTTTGAAAAACCATGCCCCCACCTGACCCACAACACAACAGGTAAGTGG
CATGCCAGTTTATTAACAGATGGGCCTAAAACATGCTGGGGCGGAGAGA
CAGATTACGGGTAATGCGCTTTGCCCGAGAA

>Sequence 485

ACATTCCTCTATTATACCGTATTGTCTTATCTAGTTATTTATACCCCTCC
TCACTTTCAACTATCTCCGGTATCTCTGTATATACGTCAACTTACTAAAA
CATATAACNNNAATACTCTGTNTTTTTTGGCCTCCCGGGTGGCGGCC
GAGGTACTTTTTTTTTTTTTTTTTTTTTTGGGGAGGATACTTTCATT
TTATTTTATATCGTGAGGTATTGTTTGGATTGTTACAATGAACCTGCATT
TCTTTTGTAATGAAGAAAAATAACAGAGGAAATAACAACAATAAACCT
TTGGCCTGGATTATCATCGGCTGGAAATTCATGTTGGATGCAAGTTTTTA
TTGATAACAAGTTATTTTTTGGTTTATATGCAAAAAATGTTCAATTGAATG
CCTCCTATTTGGCTGGCACTGCCTAGGCACTTTCACAGGTATTTTCATCCT
AATCCTCACAACAGCCCTATGAGGTAATCATTGGTCCCAGTTTACAGAAG
CCTTGGGTGGGAGATTATGCTTGATATACTTCTATTTGCCACACATTTT
TGTTGGCAAGACGTTTCGTATCGGCTGGTGATTCACTGGTCAAGAGCTCTC
ATTGGCCAGGAGTTCTTATTTGTTGCTGTAAGATTCAAATAATCAAAATA
CTAGAATTTTTCCCCACAAGAATGATGGGACCAAGTGGCATAAGAGTAAA
GGAAGGAGAGTCAGTGGGTCTCTCCCTTGAAGCACCCATTGAGTTGCATG
G

>Sequence 486

TCACACCTATCTTCTCTCTCATTTCTCCCATATTATTAATACGCTTATT
TTCGTTCTCATCGTTCTTATAAATCGCTGTTACTACTATACACTTACTA
TAAGATGAAAACTTTATGNNNNNNANANNNATGGGTCTGTGCGCCCTCA
CGGGTGGCGGCCCGCCGGGCAGGTACGCGGGAGTGTTGATTGAACAGAAA
ATTGGAATCATAGTCAAAGGGCTTCCCTTGGTTGCCACTCATTTATTT
GTAACCTGACTGGGGTGTTTTCTGCTTAAAAATTTCAATTCTCGTGGTAA
CAACGCAGAGTAGAAGGAGAGGGTGACTTTACCGAACTGACAGCCATTGG
GGAGGCAGATGCGGGTGTTGGAGGTGTGGGCTGAAGGTAGTACTGTTTGA
TTTTAAAAAGTGACTGTCAAGTTGTATCTGTTGCTTTTCTCAATGATT
AGGGATACAAATGGGCTTCTCTCATTCAATTAAGAAAAACGCGACATCTT
TCTAAGATTCTGTGGGAAAAATGACTGTCAATAAAATGCGGGTTTCTGG
GCCAAAAATTATAAATTTATGGAATATATAATACTAATAGAATAATGTT
CT

>Sequence 487

TCCTCTCTTATTCTTTTTCTTTATTTTCTCTATTAATCTAACCTTATT
CTTAATATTTTTTTAATTATCTTACATCATTGTAAGTTGATTCTGAACT
TTATANAAAGANATTTTGTGACACCTCCTAAGCTGGCGGCCGAGGTAC
TTGTTATTTGTTTCTATTACTGTTTGAATTTCTCCCAAGGGTTTCAAGT
CTCAAGGGGCCATCCTGTCCACCATGCAAGTGGCCCTAGCTTAGAGGGCTC
CCTCAATTCCTTGGCCACCACCCCCCACTGTGCTGCTGACCTTGAGGA
GTCTTGTGTGCATTGCTGTGAATTAGCTCACTGGTGATATGTCCTATAT
TGGCTAAATTGAAACCTGGAATTGTGGGGCAATCTATTAATAGCTGCTT
AAAGTCAGTAACTTACCCTTAGGGAGGCTGGGGGAAAAGGTTAGATTTTG
TATTCAGGGGTTTTTTGTGTACCTGCCCC

>Sequence 488

GATCGTCATTGTTATTACTTGATTCTTATTTTATTTATGTTTTGTTTTA
CTCTTTCTTTTAAATTTCTGATGTTATTTTTTTTTTTGTATCGTTTATT
TTNANNATNNTTGGGGGCTATAGGCNCTTCTCCCGCGGGGGCGGCCG
AGGGACTTNGTTTTTTTTTTGTTTTTTTTTGGTGCTTATTTTCAATATT

Table 2

GTCTTATTAATATTTTCTTATTTTATAATGCAATTACAACGGTTTAGGA
GACAAAACAATATAAAACAAACGAATGTTAAATAGTTTTTTTTAAAAAATA
GCTTGTTGCTTGCAAGAAAGTCCATATAATCTTATCCCCCCCCAAATATA
ATTTTATACTTTGCACTAAACCAAAATAGCTTATGAAAAATTAGTATTAA
ATAGCTAAACACAGAAAAACCTACAGCTATAAATAACATAAAAAATACAGTTT
AACTTTAATGTGATGCTTAAACAAAGCAAATATGATGCAATTTGAATCA
ACTTCATTAATTTGGACCAAGTCCAGTGGGGCACAATTTTGATTAGCCCTAA
CCCCCATTTGGTGGCCAGTGAAACCTCCACCCAGCAAGGGCCTTTCTGG
TCTTGGGCTATGTCCAATTCCATTCCAGAAAGCCACAGTTTTTACATGTT
CTTGACTTTTTTACTGAGAGGACGCCAAN

>Sequence 489
CATTCCCTTCTTCTTGCATTTATATGTTAGTTTATATATTTTATTATCT
ATGTTTAACTATTTATTTTATTATGATTTTATTATTTTCTCTATCATAT
TTATTCTATTNNCTGTTTGTCTTCTGGATATCATTTCCCGTGGTGGCGGCCG
ACCGAAACCTGGTGAAGCCCTTTGGGCGATTGGTGATCACCCCTAGATCC
GTGAAAGCTGGTGGCCCCCATCCGGGCAAGCAGGGCCAAGGTGGCATC
TTCACATTTCTGGAACCCACCCAGTAACAGCAGCAGGTATTTCTTCTGGT
AAATGAGAGCCTTTCGAAAACTTTCTGCCCTCAAGTATTTACCATAAAATT
CTCTTTAAAGTGACATGTTTCAAGATCAGGGCTCAGAGTTTGAAGTAAAGA
GTCATTTCTTAGTTCAGCTTTCAATTTGTATAACTTTAGCCTCTGCCCTT
TTCAAAGATTTTTGGAGAGTCAATTTTTCTTTTGTTCATACTTCTTTTTC
AGAGGGCATGTTGGCTTCAATGTTGGGCACCACCATTTCAATGAAAACCCCT
GGAGATTATTCTTACCAGCTTCTGGCTGGCGATCCAAGTATCTGCCCT
TCCAGCTTAATACCCATGTCCTTAAATCATTCTTTTTTCAGTAATTGGCT
TGATTTCCCTGGCAGCTTAACATTTTGTAAAAAGTCTTTATTTTATGTGC
CCCAAGAGTCTTTTGGCGTTTTAAACTGTTGACCCCGGCTTGTAATCG
TATAAACCTAAAAATCTGTCCCTT

>Sequence 490
GGGGATATGTCGAGTCTCCCGCGGTGGCGGCCGAGGTACCTGATTTTATT
TCCAGTTTTTCATCCGAATCCACTGGGGAATGGGACGATTTTGTCTTTGTT
TCTTGGCCAGGAATCGCTTAATCCTGAAAGTCTTGTGAGAAGACA

>Sequence 491
TTNTAAGAGATGAGCTCCCGCGGTGGCGGCCGCCCCGGGCAGGTACAAAAA
AATAAAAAAGGAGGCTGGTGGGAGAACTGCTTGAGCCCCAGAGTTTGAGGT
TACAGTGAGCTATGATCACATCACTGCATCCAGGCTGGGCGATGGAGC
GAAACTGTCTCTTAAAAAATGGCAGGGAGTTGGGAGCTGGGCAGGTGCA
GTGGCTCATGTCTGTAATCCCAATACTCTGGGAGGCCAAGATGGGAGGAT
CACTTGAGCCCAGGAGTTTGAGACCAGGCTGGGTAACACAGGGAGGACCC
CGTCTCAAATATTTAAAAAATTAATCATGCGTAGTGGTGCAATTCCTTGGG
GGTTCCAGCTTCTTGGGGAGGCTTAAAGTGCAAGGGTTAGCTTTGGGCCT
TGGGAAGACACAGCGTTCAAGAGGCTTTGAATTTGACCACTGGTACTTTA
AACCTGGGCCGATAAAATGAGAACCCTTTTCTTAAAAAAGGG
GGAGGGGCCCCCCCCCTGTTTTTATTTTGCACAACAAACCAATTTTTTT
AAA

>Sequence 492
TTGTTACGTGTCGAGCTCCCGCGGTGGCGGCCGAGGTACATGAGAGATAA
TGTTATGACAAGAATAGTTTCTGCAACATTAAGTATGGGTCAAAAAAGA
AGAAATGGGCCAGGCGCGGTGGCTCATCCCTTTGGGAGGCTGAGGCAGGT
GTATCACAAGGTCAGGAGTTTCGAGACCAGCCTGACCAATATGGTTGAAAAAC
CCATCTCTACTAAAAAAAACAAAAAATTAGCCAGGCATGGTGGTGACG
CCTGTAATCCCAGATACTCAGGAGGCTGAGGCAGGAGAATCGCTTGAACC
CGGGAGGTGGAGGTTGCAGTGAGCCGAGATCACGCCACTGCATTCCAGCC
TGGGCAACAGAGCAAGACTCCATCTCCCAAAAAACAAAGAAATGACTTTA
GACAAATGGCTTGAATGAAATTACAAAGAGGAGGTGCATTAATAAATACC
AGCAGTAAATCTCTTGAAGAATTAAAAATGACAGGCTAAAAATAAATATA
AATGTTCTTTTTAAAAAATACTAGGTTGCTGCTGGC

Table 2

>Sequence 493

GGGGNNAATGGATAGAGCTCACCGCGGTGGCGGCCGCCCGGGCAGGTACG
CGGGGGTGGCGGCGTTGGGTTGAGCGGGCTTTTGGAAAGTTTGTGGCGGA
GTTCTGTGATATGAGCAACAATGGACCAGAAGATTTATCTCTAGCAGCA
GAAAAAACAGCAGACAACTGCAAGAATTTCTTGGGCAGGGCCTGGGGAA
TGCTTTTTATCTCATATTAGTGCCTGTGATGGCATCTTTCATCTAACAC
GTGCTTTTGAAGATGATGATATCACGCACGTTGAAGGAAGTGTAGATCCT
ATTCGAGATATAGAAATAATACATGAAGAGCTTCAGCTTAAAGATGAGGA
AATGATTGGGCCCATTATAGATAAACTAGAAAAGGTGCCTGTGAGAGGAG
GAGATAAAAACTAAAACCTGAATATGATATAATGTGCAAAGTAAATCC
TGGGTTATTAGATCAAAAGAAACCTGTTGCTTCTATCATGATTGGAATG
ACAAAGAATTGAAAGTGTGAATAAACACTTATTTTGACTTC

>Sequence 494

TTAATTTGATCGAGTCCACCGCGGTGGCGGCCGAGGTACTCATGGTTGCT
GTAATTAGGCAGCCGTTCTGCAGGGTTTTGCTTAGCCAGGCTCCTCTGA
GATCTGGCTATTCTGTCTGTGGATTTTCAGTCCCCGCGTACCTGCCCGG
GCGGTTTCGAGCGGTCGTCGGTCAGGTACATATACATTATGTAATTAATA
AGCGTGCATGTTTATGTATTAATAAATAATTGGATTAAACAAATATTATA
TATACATTATAACACCTAAACGCATAGGCTGTTGTTATTACAAATAGTTA
TACCAATATTATTAATGATGTGTATGAAGACACAATACAAAGCTGGAGGA
AGTATTTAATAGGTATACTCAACTAATACACATAAATTCTAAGCAATAAA
GTACGCAAATTATGTTTTGGATGAATTTTCAAAATTTGTCATAATAGAC
TTATATTCAGTTAAACTTGTATAATTTTGGAAATTTTAAACTTGTGACA
AAACTTTTTGTGAAATGTTTCTATTAAATTTAT

>Sequence 495

GATCGAATCAATCGGCAGCGCTCGAGGTACGATGGGGCATATCTGCAGAT
CTCAAGATCTGGACTTCTGTTGAAAAATTTCCACGTGAGGTTTACTTAT
GTCTGTAAAGATGGGAAAAAATACAAGAACATTGTTCTACTAAAAGGAT
TAGAGGTCATCAATGATTATCATTTTGAATGGTTAAGTCCTTACTGAGC
AACGATTTAAACTTAAATTTAAAAATGAGAGAAGAGTATGACAAAATTCA
GATTGCTGACTTGATGGAAGAAAAGTCCCGAGGTGATGCCTGTTTTGGCC
AACTAATAAAAAATTTTCGAAGATATCCCAACCCCTTTGAACACCTGGTTT
AACTTTAAAAAATAAATGTTAAAGGTAAAGGGCCCCCCCCCTTATT
AAAAAAGAAGAAAAAAGGGAGGGGGGTTTTCTTTTCCCTCGGCCCTC
CCCAAAAAGCGTGTTTTTTAAAAATTTGGGGGGGGGGGGCGCTCTTTT
TTTTGGTTTTCTAAAAAATAAATTTCCCCCAAAAGAAAGGCCT
TCCCCCAAGGGGAGGTAGGGCC

>Sequence 496

TGGAGATGAGCTCACCGCGGTGGCGGGNCGGCCGGGCAGGTACCGTGAAA
AGGCACTTCTCCTTGAGAAGCCTGACAGTGTCTGTTAATGTCCTGCTGGCG
CATGGTGAAAATTTAGGGCAACAGTAAAGCACCCCTCTTTAATTTCCCTT
CTCCAAGCCCAAGCTTTTGCAGGTAACCTGGAGCGCTTCCTCATTTGCATA
ATAGGCAGTTTCAATAACTGGGGACTTTTCTCAAGACCACACACAGG
CTCTGGATTAAACCCAGAAAATTAATCTTGAATGGTGTCAACAACCTG
GTGGAGAATGGGACCTTGGCGGACCTTGGGCGG

>Sequence 497

TGGAGCTCACCGGTGGCGGCCGAGGTACTGGGAGCCTCATAAGGCTGGC
TGTTGAGGTGTATTGACTGTGAAAGCCCGCATGTGAACCTACAAAACCTCA
AAGACATGAGCGCAACAGGCACAAATGTATATTTAGGGTGAAAGTGAGAC
CGCACATTGGATGTCTTGTGGAACATCATGAATCAACACACATAGTACCC
CAGCTGTGATAACGCATGGAGATACACATGGCATGGGGCTGCATATAGGT
TGGATTTGAAGCCGAAACAAGAGGTCCCTACTGAAATGAGCATTGAAACA
CACAGGTTTATTATGAGGACCGAATGAATATATTACAGAGCCCTAGAGTG
GCCCTGCGCCGGAACGCGGCACATGAAGCAACTAGGCGGTAATTCTACAC
CCTCTGTGAGTGAATAGCTGATGATCTAATGACTTCAATTCGGGTTACGC
TGTCCTGACTTNNNACCGGGGGGGGGGGGGGGCCCCCGGGTTAACCC

Table 2

CAAGCTTTTTTTGGTTTCCCCCTTATATAGGTTGGAGGGGGGTTAAAA
TTTGGTCGGCGGCTTTTGGGCCCGTAAAAATTCAATGGGGTCCCATAAGG
CCTGTGTTTTTCCCTTGGGTGGTTGAAAAAATTATGGTATATATCNCCGC
TTTCAACCAAATTTTCCCTACAAACAG
>Sequence 498
TGGTTGAGCTACCGCGGTGGCGGCCGCCCGGGCAGGTACAGGGCCTTCC
ACTTCAGCTGACTGAATTTAGGCAGTTCTGGCCACTTCAGTTTCCGCACC
CAGGCCTCTGACCCATGGTATCTACGATGAGATCCAGCTGTCCATTATA
CACCGTCACGTTGATCCCTGCCTCCAGCAACTTGCCACAATGCTAATGAC
TGGGTTTAAGGAAGTCTCCCCCATGGTACAAAAACACGTGGGGGGCCCGG
CCTCCCCAGAATGGGACCTTAAGGAAATATTTGGGCTTTTTTTTTTTGG
GGGGGCCATTATTAAACTGGGTTTAAGGGCTTCTGTAGGGGGGGTTACA
AGGGGGCGGACAAAAACAAACAAAGGGGGGTCTTTGTGGAATTTTAA
CACCCCTCCCCCTTTTGAACCGGGGGGGGGCTTTTTTTTAAAGGT
TTTTTAAAGAGTTCCCCCCCCCTTTGGTTTGTGTTTAAAGAAGAAATTT
TTTGTTTTTTCCCCCAACAAATTTTGGGGCGTCTTTTTTAGGGGGCC
CCCTTTTTTATGGGGGATATCCCCCCCCGGCGGTTTAA
>Sequence 499
TTCTTATATATGCTTATATATTTTATATATATAATTTTTCTTATTACTTC
TTTCATGTCTACTTTAGCTTTACTCTATTTTCATATATTTTATTTTATT
TTCTANATTTCTATCTATCTAGANAGGATGCGGGGGCGGCCGAGGTACCTC
AATTGATGATTTCTGGTATGACCTAGCAAATACACTGCTTTCACTGAAAT
TTCAGTCTTGCAATCTGCTTTGGGTCCCCAATCTAAGACAGAAACATAC
TCATTTTCCCATCACTGGACTTCCAGGTTGTTTTCAATTTTAACTGTTA
CAAACAAGGTGGCAACATTTATCTACAAACCTCTGGATATACACGTAGGA
AGCTTTTGGTATTTCCACTAGTGAAACTGCTCAGTTGAAGGGTATGTGGA
TCTTCATCTTTAATAAATATTACCAACATGTGAAAAGCCCGACAATGTCA
AGGACTGGCAAGAGTGCCACATGTGATGGGTGTGGAATGGCAGCTCACTG
TAGCAGGTGCTGGGACTCAATTGGGGTCTTGAGAGAAGCACTTAGTTATA
GCAAGAATGTCTCATAAATGGGTTCTGATAGAGACCAGAGTAGTGGGGAA
TAAAACTAGTTGGCTAGAAATAATTATGATCTAAAGTCAACAAAAAAC
CCTTTTAAATGTAG
>Sequence 500
TCTCTTGATCTTCGCTTTGACCGCATATCTTATTCTGCTTATTATCTTAC
TCTAATACTATTACCTTATTATACTATCTAACTG
>Sequence 501
CTCCGCCTTCTATTATACATTGTTATTTGATTGTTATCTGATATGTTTTG
TAATGCTCTTCGCACTCTATCCAGATATATTTA
>Sequence 502
ACTCGCGTTTTTCGTTAATTGCTATCTTATTTGATTCTTATTCTTTTTTT
TTCATTTCTCTATTATTA
>Sequence 503
CCTCTTTCTCATCATTCTACTTTCTTATAATATCTGTAATTATAATCCTG
ATTATAATTCGTCTTTTATCTTTTCTACATCTANAATCGTGTCTTATCT
TTATGTACGTATACTCCTACTATTATCTTCTGACTATACCATCNAATACT
ACTTATGGTGATGGTTCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTT
TTTTTTTTTTTATGAATTATTTATTTCTTCTCAGAAAAGGATGTCGTC
TCCACTTAGCAAGGCATGGGCATGTATGTGGTTTTTGCATACTGCCACA
TGACGTGGGGTGTGTTCTATGACTGGTCCGCTTCTATGAACCTAGGTGTG
ATACTCCCTCGGGCGTGTACGGAAATTTTCGATTATTCACATGCTCTAT
TCGTATAACCCGTTTCAACCTTTATAAGGTGGTGGTGTCCCTCGGGTAAC
CCCAGGCTTTTTTTGTTTCTCCTTTATATGATTGAGGGTGTATAATT
TGCCGACTGCCTCTGTGGCCGTTATAATCCAATGTGGTCTATTAAGCCTT
GTTTCTACCCTGGTTGGTGAAAAAATTTGTTTTATCCCCGGCTTCCAAC
AAATTTGTTTCACCATCCAATCTATTATCTGAAGTCCCTGTGGGAAGTCAA
TAAATATGTTTGTATAAAGTCTCTTGGTGTGTCTGCTCTCAAATTGCA

Table 2

GTTTGGAGTCTTTAAACCTCCACCCATTAAATTTGGCGGTTTGGCGGCC
TTCAACTTGGCCCCCGCCTTTTTTCCATAGTTCGTGGGAAACCCCTTTGT
CTGTTGTCCAGTCTTGCAATTTTAAATTGAAATTCGGTCCCACACCCCTC
CCGGGGGTAGAAGGGCCCCGGCTTTTGCATTTTGGGGGGGGCCTCCTTAT
CCGTTTTTCTTCGGCATAACCTTGAT

>Sequence 504

CTTAATGAAGTGATGCTTAACTTCACATTTAATTTGCGGTTGGCGCTTCA
CATGCTCCGCCTTTTCCAGTCCGGGAAAACACTGGTCCGTGCCCAGCATG
CCATTACATGGAATTCGGCCCCAACGCCCGCGGTGAGGAGGCCGGGTTTT
GCCGTAATTGGGGCGCCTCCTTTCCGCGTTTCCTTCGGCTTCAACTGGAC
TTCGCTTGCTGCTTTTCGGTTTCGTTTCGTGCTGGTTGGCGAAGCCGGGTTT
CAAGCTTTAACTTCAAAGGGCGGGTAATAACGTGTTATCCACACGAAAT
CAGTGGGGATAACCCCATGGAAAAGAAACATTGGTGAGCAAAAAGGGCCC
AGCTAAAAAGGCCCAGGTAACCCG

>Sequence 505

CACACACTTCACTGTATCCATTATCATTCACTAACTTACTTATTTTAC
ATACATGTTATCTACATTATTCTATGTATACTTGCATTGTCACTCA
TCAGTCTATAATTATATTATTTGAAGTAGACCACTCG

>Sequence 506

CACTACCTGCTATCGTCTTGNCTACNTGTATCGTCAGTATCTACATCTA
TCTNGACATCTATACAGCTTATNTATCGGTTTCGTGTANANCTATNGTATC
TGTACTGTGTGTGTCAGTCGATATCTCACATCCGCGATATCGTTTCTGTATT
ACGTCTCTCTGTCTGATTTCATCGTATGTGATATTATANTNATAATCATA
ATGATTTTAGACTCACCGCGGTGGCGGCCGCCGGCAGGTACTCGTCTT
GGTGAGAGCGTGAGCTGCTGAGATTTGGGAGTCTGCGCTAGGCCCGCTTG
GAGTTCTGAGCCGATGGAAGAGTTCATCATGTTTGACCCCGCGGTGATG
CGTGCTTTTCGCAAGAACAAGACTCTTGGCTATGGAGTCCCATGTTGAT
GGATCCTGAGCTTGAAAAAACTGAAAGAGAATAAAATATCTTTAGAGTC
GGAATATGAGAAAAATCAAAGACTCCAAGTTTGATGACTGGAAGAATATTC
GAGGACCCAGGCCTTGGGAAGATCCTGACCTTCTTCAAGGAAGAAATCCA
GAAAGCCTTAAGACTAAGACAACCTTGACTCTGCTGATTCTTTTTTCTTT
TTTTTTTTTTAAATAAAAAATATTATTAAGTGGACCTCCTAATATATACT
TCTATCAAGTGGAAGGAAATTCCTCGGCCCATGGAACTTGGATATGGGT
AATTTGATGAACAAAATCTTTACTTAAAGGCAAGGTTTCCTTGCCCGT

>Sequence 507

CACTACCGTCGCTATTCTTTGCTCTGTTATTAATGAGGTTCAATCTAC
GTCACATTCTTATTTAATTTACTATATTATTTCTTACATTTTATTCATAT
ATAACTCATTTCTTATCTNTTCTCAAGTTTGATGTACGGGTGGCGGCCGC
CCGGGCAGGTACGCGGAAATCCCTAACTTCTTGCTATCTTCCCATCCC
ATATTTAGGTTAGATATGAGAAGTTGTGTATGCTGTGTTGTGTGCTGTGT
GGTTGCTACGCACATGTGACTGATACTTGAATACATAAATTGAAGTAT
ATTGTGAATAACATATCACTGCAATTTAATGGAACAAACATTGGACAAAA
TTTTCATTTTAGGACTTCTCTAATTCATAATGATGTATTCCAGTTTCTCT
ACAAGCTTTGGCTATTTAGTATATCTTAGCTACTTAAACATTTCTAGAAT
TCTCTGGACATGGTTTTTCTCTGGTGCGAATATAAAGGTCAAGGGCCTCT
TTACCAAGTTCTAAGCCAGCTCCTTTTTAAGCCTACGTCTATGTAAACCC
AGTTTAATAATCTAATCATAACAAGGCAAGGACGCCCTTTTAACGGTTGG
TATATTTTTTAGTTGAAGCTCCTAAATAACAATGGATACCTTCCAGCGAGT
TTTTCTCAGAAAAATCCCTCTAACCACAATGGAAATTAGGTGGGGGAAGG
TTGAAGTTAAAAGAATAACTTGGAGGAAAAGGGTTATGAAATTTAGAAA
TTATGGGTGGTTTAAATTTCTTCGTCCAAAAATTTTCTTATTCCTAGG
GTGGCCATGAATTTTACCCCTTAAAAGGACCTACCAACCCATTTAGTGAA
ATAAATTGGAGCGGGATGTGTTAACCACATTGATTGTCAATAAAACAGGA
TACAATCT

>Sequence 508

CTCGCTCCTTTATCTTCTTATTTTATCGATGTGATTGTATTTATCTTACT

Table 2

TATCGTTGTA
>Sequence 509
AATTGGAGCTCCACCCGGTGGNCGGCCGAGGTACACTCCCACGACCACGG
CATGGTCTCTTTCATATGGCTCAANNNTCAACTGGGCCGTGGGGGGGTTA
TATTCCTACTNTTNCATCTTTTCACTTCNNANGCAAACACNNCTCNNCT
TANNCTTTNNANTCAATNCANTTNNCTTAATNNAATCACAANTNTCC
TCCATTACNCANNAANNNTNNNCATTCAANNCCACAATCCGGGGGGGGG
GGTNNCTNGGCCACATCANCAAAATCACATCCACCATTCGNATCCCN
TACCTGCCCC
>Sequence 510
ATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTA CTCTCTGAGCCA
AGGACATTCTCATTTAAACAGTTTAAANAGGCGGGGTGCGGGAGGCGGAA
AAAAAGAAATATACCTTGCGAGCGCTGCCGCCGGAAGCGGAGAGGGAC
GCTAAGATCAGCAAATTCGCCAGTTTGATCCTTGTCTTTTCCGCCCTT
TTCCCCCATTAATAATCCAGAACCCGTCACATGATAATTAAGAGGGGGCGG
CAGTTCCGGCTGCTCAAACGACTGCGGTAGAGGATCCCCGCGTACCT
>Sequence 511
CAACTGTAGCCTAGNCNGGGCGTTCCCCGAGCNACTACTTTTTTTNNN
NACANNNNNCCGNNCCCCAAGACTTTTCCACTCTGCTACTCAAGGTGG
AGTGCAGTAAACCAATCAGCTCACTGCAAGGGCACACATCACTATTCT
CCAGCTAATTAAAAAATTTTTTTTTCATACAGATAGAGTCTTGCCATG
TTGCCCAGACTGGTCTCAAAGCCCCGGAACCATGNTTCTTTGGCGGGG
GCCCCCAAAGGGCNGAGAAAACAGCCACGACCCACGGCACCAAGCNGA
NNGAGGGCGGGGAGACGCCGCCAAAAGCAAACGGCGGCCAAANCNGAG
GGAGCAANNCGGGGCGAAAAGGNAACGGAACCAACGAAAGAAAAACA
AAAGAAAACCGGAGCACACAGGGGGAACCGCGCC
>Sequence 512
TGGCT
>Sequence 513
NGCGTTAGGAGCACTCCGCGGNGGCGCTGGANNGTTTGATCAGGACGCCC
CGNAGNCACCGACGAGGACCAGACGCTGNNANGAATTTATTCAAAGCC
CACCCGNCACAGCCCNAAAGGCCAACCTTTTGGAGGNGCCNGGGANG
CAAACCGAAAAAAGCNGGAAAAAANNGAGGAGNNGAAGCCAAACAGCCAA
ANNCNGCCANNAGGAAGNGNGNAAGGGTTTTTCNAGTTTTTTNNGGGT
GTAGANCAACCCCNNGAAAAAGNCCGGGAGGACGCCCCAGAACGAGGGG
GGGGGGGGGGCGCAAGAAGGGGAGANCAAGCANNANCGANACCGGCGACC
CCGAGGGGGGGCGGNACCCAGGCGGGGGCCCCAAGGGAGGGGAAACN
GCGCGCGGGGGGAAACAGGGGCAAAAGCGGGCCCCGGGGGAAAGGGAA
GCGGCGACAAGGGAAACAGCAAACGAGGCGGGAGGCAAAAGGGAAAGC
CGGGGGGGGCAAGGAGGGGGGGGAAACGAAAAGAGGGGGGGGGGCA
AGGGACGGCGAAGAGGGGGGGAACCGGGGGGCGAGGCGGAAAAAGGAAG
GGGGCAAGCCGCGGAGAGGGGAGAGGGCGGAGAGGGGGAGGGGCAGAA
GCGAGCGACGGACCGAGGAGGGCGGGGGGAGGGGA
>Sequence 514
GCGATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCTCCGAAA
TCTTACCTTCAGTCTTCTGCCACCCAGTCATTTATATGCTTCCTGCAC
TCTTCAGTGTCTTCAGCAAAGGACAACTCCTCCAGCTCTGCCTGATAGAA
CTTCTGACAGTATTCTTTAAAGTCTGGAAGGAAATCACACGTCTTTTCTC
CAAAGAGTCTGTTGGCAGTTCTAAGCAAAGTACGCGGGGTAAGCAGGAAGT
GAAACCAAGAGCTTCAAAAAAGAGCGGGACAGGGACAAGCGTATCTAA
GAGGCTGAACATGAATCCACAGATCAGAAATCCGATGGAGCGGATGTATC
GAGACACATTCTACGACAACCTTTGAAAACGAACCCATCCTCTATGGTCGG
AGCTACATTGGCTGTGCTATGAAGTAAAAATAAGAGGGGGCGCTCAA
TCTCTTTGGGACACAGGGGTCTTTCGAGGCCAGGTGTATTCGAGCCTC
GTACCT
>Sequence 515

Table 2

GCGATTGGAGCTCCCCGCGGTGGCGGTGAGGTACGCGGGGACGGCGGAG
CTGGCTCTACGTGGAGGCGGGTTAATTTGCCCCACCGGAATGATCACCA
AGACACACAAAGTAGACCTTGGGCTCCCAGAGAAGAAAAAGAAAGAAA
GTGGTCAAAGAACCAGAGACTCGATACTCAGTTTAAACAATGATGATTA
CTTTGCTGATGTTTCTCCTTTAAGAGCTACATCCCCCTCTAAGAGTGTGG
CCCATGGGCAGGCACCTGAGATGCCTCTAGTGAAGAAAAAAAAAAAAA
AAAAAAGTACCTGCCCGGGCGGCCGCTCGACGTGGTGGCGGCCGAGGTAC
AACTGCAGTAAGAGGGACGGTTAATTCACAGCTTCCAGCTCTTGGCGCCA
GAGTCCGATGCACTCCTGCAGATAACGGTCATTTCCATTCCGGGAGAACC
TCTTCGAAAAACAACCCGGATGAGACTATCTGGCAAATTGCAGCCCTTGG
CGGGCTTTTCAAATAGAGCGTTGACCAATCAAAGAAGGGGGACGTTACAG
GCACTGAAAGAATAACC

>Sequence 516

TTTTGCTCTGTAGCCAGGCTGGAGTGCAATGGCAGGATCTCAGATCAC
TGCAACCTCTGCCTCCTGGGTTCAGCGATTTTCCTGCTTCATCTTCCCA
GGTAGCTGGGATTACAGGCATGTGCCACAACGCCTGGCTAATTTTGTATT
TTTAGTAGAGACTGGTTTCTCCATGTTGGTCAGGCTGGTCTCAAACCTCCC
GACCTCAGGTGATCCGCCCGCCTCGGCCTCCTAAAGTGCTGGGATTACAG
GCGTGAGCCACTGCGCCAGCTATACTGTATATTTAAGAAGTTCCAGCA
TGTTGCATCTCTGCATTTATCCTATATCATTAAAAGAACATAAGTTATCA
TGGTGTGGGTAAATTAGCGAAATCAACCCCTCCTAGGTTTAGGGGAAAG
TTATTTTAAAAACAACCTTAATAAACTTACACTCTTATACAAGAGTGAT
TCCCCCTATTAGGATGCATGTTGATTAACTCGAGATACAGCTTTTTC
AGATGGGGGGTGGGTGTAACCTCTTAACATGTCACACTGGTTT
TCAAGATTAAGAAAATATTGAGTTTGAGTGTGTTAATAACTTTCTGAGT
TTTTAGAAGTCTTATTATTTTAAAGAACTTAATAAAGGTCTAGATTGAC
AAAN

>Sequence 517

AGGTACGCGGGTGTGATCCAGTTCTTGCTTTTCAACGAGAAGGATTTGG
ACGTCAGAGTATGTCAGAAAAACGCACAAAGCAATTTTCAGATGCCAGTC
AATTGGATTTCTGTTAAACACGAAAAATCAAAAAGCATGGATTTAGTAGCT
GACGAGACTAAACTCAATACAGTGGATGACTAGAAAGCAGGTTCTCCAG
CAGAGATGTGGGTCTTCCCTGGGTCTGAAGAAGTCAAGCTCATTGGAGA
GTCTGCAGACCGCAGTTGCCGAGGTGACTTTGAATGGGGATATTCTTTTC
CATCGTCCA

>Sequence 518

CACNCAGNAGGCCTCNNAAGCAGGACTAGGCACANCC
CCCCGGGGGAAGGGNNGAAGGGAGGGCTTTGAGGGCNGAGGGGGAAGCCC
CGGAAAGNNNNCCNCCANCCAGGGGAGAAGAGACNCGGNAGGGACACGCC
AAGGAGAGGGAACAGGGGAACCANCACTTTTGTCTTTGGGGGGCACNGN
GCAGGGACCCCCACAAAAAAGACCNCCCCCAGGAGGGGGGGGGGCA
AGCGGAAAAAACAAGACCCAAAGAAAAAACAAGGGCACACAAAG
CAAACGGCAAAACCCGGAACCTGCCCGGGCGGCCCGCCAAAAACCGGGG
ACCCCCCGGGCCGAGGAACGCGAAAAACAAGCCAACCGACCCCGCGGACC
CGCAAGGGGGGGCCCGGGCCCCAGCATAGGAACCTAAGGGGAGGCGAAC
GGCGCCCCCGGGGAACAGGGGCAAGGCCGGCGCCGGGGGAAAGGGGAA
GCCCGCAACAGGCCACCAAGACGGGCCCGGAGCAAAAAGGGGAAACCCGG
GGGGGCCAAAGGGGGGGGCAACCACCATAAAGGCGGGGGGCCAGACCC
GCGGACAAGAGGAAAAACCGGGCGCCCGA

>Sequence 519

TCCCTCCCCAGGGATCCCGGTTTCGAAGGTGCGCTTTCCTCCGTTTAA
ATAACTCAAGGGGGGAGACGGTTTTCCCGGAGTCGGGTTTACCCTTGAAG
ACGTGTAGCGAAATCCCCCAAAGGCGGGAACCCAAAAAGAACCGTTGT
TCGAGGGTTCCATAGGN

>Sequence 520

GGAGCTCACCGCGGTGGCGGCCCGGGCAGGTACTATGTTGAATAAAT

Table 2

GTTCCTTCCCTTTTAAATTTTCTGCTTCCCTAGTGCATAGAATTGAACT
GCTTAGGGAGTTTGAGGCTGCAGTGAGCTATGGTCATGTTACTGCGCTCC
AGCCTGAGTGATGGAGTGAGAACCTGCCTCAATTAATAAAAAAAAAAAGA
AAGAAAAACAGTGCACTGGCTCATGCCTGTATCCCAACAGTTTGGAA
GCCAAGGCAAGAGGATTCCCAGGAGTTCAAGACCAGCCTAGGCAACTTAG
CAAGACCTTGATCTTCCAAAACTTTAAAAATTAGTTGTGTGTGGTGTG
CCTGGCTGAGATGAGAGGATTGCTTGATCCAGGAGGTGGAGGCTGAAGTG
AGCTATGATTGGGGCACAGCAATCCAGCCTGGGGGAAAAGGGAACCTGT
CTTAATAAAAAAAAAAAAAAGAGACCAGGGCGCTTTAACTAGGGAAT
CCCCGGGCTGAGGAATTCAATTTAACTATTGAATCCGTCACCTTAAGGG
GGGCCGGTCCCAATTTTGTTCCTTTAATGGGGAAATTCGCCTTTGGAAA
AAAGGAATAGTTTCTGAGAAATTTTATCGTTAAATTCCAAACATACG
GC
>Sequence 521
CCGGGACGAGCGGGCGGCTCTTAACGGTGGATCACTCGGCTCGTGCGT
CGATGAAGAACGCAGCTAGCTGCGAGAATTAATGTGAATTGCAGGACACA
TTGATCATCGACACTTCAACGCCTTGGCGCCCCGGGTTCTCCCGGAG
CTACGCTGTCTGAGCGTGCCTTCCAAAAATAAAAAAAAAAAAAAG
GTCCCT
>Sequence 522
AGGTACACCTCCCAAGCTCTCTTCTCCGGCTCTAGCTATATAAGACGT
GCCTGCTTCCCTTCGCTTCCACCAAGACTGTAAGTTTCTGAGGCCTC
CCCAGCTTCCCTGCATGCTTCTGTGCAGCCTGCAGAACTGTAAGTCAATT
AAACCTCTTTCTTTATAAATTACCCAGTCTCAGGTAGTTCTTCACAGCA
ATGTGAGAACAGACTAACAACAATCAACTCATGGCTTTAACACAAAAAA
ATAGGTAAGTTCAAAATTAACATATTACCACATCCAACCTCTTTATTCTT
GAGAAAACAAAAAAGTCCAAAAATCAAAGGAAAGCACCCGTTTAAACCTT
CATATCTTCTCAGGGCTCACTGCAGTCTGGCCATATCTCAAGCAGGTCT
>Sequence 523
TTGGAGCTCCCCGCGGTGGCGGCCCGGGCAGGTACGCGGGGGAGTGA
GAGGGAACGAGAGTAAGAGAAAGAAAGAGTGAAGGGATGTAACTCGAA
TAAATTTCAAAGTGCTCCGAGGGATGCAACGGGCAAAAACTGAACTGTT
CAGGCTTCAGATTGTAAGTACGATCTGAGGAAAAATGAGGTTTGTGTGA
TTTTGCTAAAATGCATCACCACAGCGAATGGCTGCCTTAGGGACGGACA
AAGAGCTGAGTGATTACTGGATTTCAGTGCATGTTTTACCTCCTGTG
AGCAGTGGGAAAAATGGACCAACTTCTTTGGCAAGTGGACATTTACTGG
CTCAAATGTAGAAGACAGAAGTAGCTCAGGGTCTGGGGGAATGGAGGAC
ATCCAAGCCCGTCCAGGA
>Sequence 524
AGGTACGCGGGGCTCTTGAGGAGTGAGACTGCAGGAGATGTGGGCGGTGC
CAAAGAGATGGATGAGACTGTTGCTGAGTTCATCAAGAGGACCATCTTGA
AAATCCCCATGAATGAACTGACAACAATCCTGAAGGCCTGGGATTTTTTG
TCTGAAAATCAACTGCAGACTGTAAATTTCCGACAGAGAAAGGAATCTGT
AGTTCAGCACTTGATCCATCTGTGTGAGGAAAAGCGTGCAAGTATCAGTG
ATGCTGCCCTGTTAGACATCATTTGTAAGTGCTGGAGTGCAAGTAACGCCA
TCTCAGCTCACCGGACCTCTGCCTCCTGGATTCAAGTGATTCTCCAACC
TTAGCTCCCCGAGTAGCTGGGACTATAGCAGTGCACCACCATATATGCAA
TTTCAT
>Sequence 525
GCGTTAGNAGCNCTGCGNCTGTGGCGNCTTCCGATCNTTCGNGAGCTTT
ACGGNCCCNCGGCCAGNNACCCATTTTTTNNANGNAGTTNGAGGCGG
GGCCTCCCCGACCCNCGGAGAGGAAGGAGACNGTTTTTINAGNGCCCCGG
GGGCCACACCCCAAAAACCCGAGCCCGCAANNNNNGCACCGGACANAACA
NNGCGNNGGGCGAAAAACANCAACNNGGAACANCCCCGAGGGAAACCGCC
CTTTTTTTTTTTTTGTGTTTCGAANNAGGGNGCCNNGCGGCCACAA
GAAAGACAACCAAGGCCCCCGGGGAGANCGGGGNGCAGGCCCACTTTC

Table 2

TGTGGGGGTGTNCTTGNNGGACCACACATCTTTCCTTCCTGGTGGGCAAC
 ATTCACCTGGGCTGAGCGAATGGGCACCTCANTGCACAGAGAGGTGGCTT
 CTGAGGACCCAGCTTCCCTCTCCAAAGAGTGGATCATTTCCCTTGTTCAAA
 GATCCAGGGACCCTGACCGTTCCCTACCTTTTTGCTGAAGAGATTTATGAC
 CGGCAAGGTGGAGCCCCTGGGGCCTGGAATGAGCCTCTCCTGAAACACTG
 GGGGCCCGGAATTCCACGCCCCTTGGCGCAGGTCACACAGCCCCGGGTCC
 TTCGCCCCTGGGTTGGCTTAGGGCCTCCTGGCATTCTGGAGGGGCCCTAT
 TCTAATACCAGCCCTCATCAAATTGGGGCTACAACCCCAAGGCCCTCTGG
 ATC

>Sequence 526

GCGATTGGAGCACTACGCGGTGGCGGTTGAGGGACATGACATGCCACCAG
 TAAAACTTAATGTCTTCTTTTTTCTCACTGGGTTTTTCATAGATCGA
 GACATGTAAGCAGCATCATGGAGGTAAGTTTTGACCTTGAGAAAATGTT
 TTTGTTTCACTGTCTGAGGACTATTTATAGACAGCTCTAACATGATAAC
 CCTCACTATGTGGAGAACATTGACAGAGTAACATTTTTTTGGGGAAGAA
 GAATCCTACAGGGTCATGTTCCCTTCTCCTGTGGAGTGGGGGGGGAAGGT
 GTATGGCCCCAGGGATGGCCATATTACTGACCCTCTACAGAGAGGGCAAA
 GGAAGTCCAGTATGGTATTGCAGGATAAAGGCAGGTGGTTACCCACATT
 ACCTGCAAGGCTTTGATCTTCTTCTGCCATTTCCACATTGGACATCTCT
 GCTGAGGAGAGAAAATGAACCACTCTTTTCCCTTGATAATGGGGGTTTA
 TTCTTTAGACAGAAGAGAGGAGTTATACAGCTCTGGAAACATCCCATTC
 TGTATGGGGACTGTGTTGCCTTTTAGAGGTCCCAAGCCCATAGAGGAGA
 TAAAGGGGAACAGAATTGTATAACTTGATATAATGATCCTAGATAGATGG
 AACTACAAGGGGCTCGAACCCAGAGAGAGGGGGGACTTTGCTT

>Sequence 527

AGGTACTCACAGTCACGCTCCTCTGAACCATCCTTGGGCTTCATGGGGTT
 GGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTT
 TGTGAACTTCTCCAAATAAGAACAAGGACACACATTGTGTCAAGTACGA
 AGATCATTCAGTTTCCATATGCTGAAGGTTTTTCCACTATTCACACTCTG
 TGGCGTAACCTTCTTCAATATAACCCCAAATGTCACCCAATCTATTTCTT
 CCAGCTTCTCTGGCCATCTTTTCTTGATCTGAGACAGTCTGATCAGT
 TTT

>Sequence 528

AACATGGAGNCACCA
 CCTCTCCACAACCANGCCNAAACNAACTTATGNANAAGAGNGAAANAG
 GACCCAAAAAGGACAAAAGGNNCANNCANAAAAACAAANNCCAANAAN
 CCGGCCAANAANANNGCAAAAGNNCCCCCATTTTTTTTTTTTGTGTGTG
 AAAAGGGAAGAACCTAATGCACGCTTAACTATCTTAACAGGGTGGGAGTG
 CAAGAGATTGATGAGTCCAAATCTGACCAAGATGGTGATGTTGGATAAGA
 GAATTCTCTGGTTCCACCTTTAAGTGCCAGCCCTTCTAGAGGTACCTG
 GGGAGCAACCCGGCTAGGTACATCAAAACATG

>Sequence 529

ATTGTTTCAATCTTTTTCAAGCGTTTGGCACTCCCCGCGGTGGTCGGCCG
 AGGTACATTGTATACTGCAGTGTCTGCTACATGGCATTGGACAGGACATA
 ATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAATGG
 CAACGTGACCAATTTTTGGTCTCAAGTTAAATACCAAAAACTATTACAG
 TGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCCAAC
 ATTACTGGCGTGCTTTTTGTTTGGCTTTTGGAGGCCCTTTGGTGCTGCC
 TATTAATTACGGCGCTGGTTTTGGTTTGTGTTTAATACGCTTATTTATAC
 TATTGGTGTTTACATTGGGGATTACAGAATACCTTCTCTTAGGGGGATAC
 CGACATTCACTTATTGGTGAGTTCCCCGATTCTCAATACCTTGATTGCC
 CACGG

>Sequence 530

AGGTACTTGGAACCCATTTGGATTAAATTAGAGGTCTGTCTGAAGGAGTT
 GAAGCTTTATCTATGAACCTTCCAGGGTGCTGTTCAAGGCCCTGAAGA
 ATTTGCAGAGGGGTTAGTGATTGGAGTGAGAAGCCTCTTTGGACACACAG

Table 2

TAGGTGGTGCAGCAGGAGTTGTATCTCGAATCACCGGTTCTGTTGGGAAA
GGTTTGGCAGCAATTACAATGGACAAGGAATATCAGCAAAAAAAAAAAAAA
AAAAAAAAAAAAAGTACCTGCCCG

>Sequence 531

NTTACATCNGACNTTCAANCNNCCTTTGNGANCTTTCTGCCCCCCCCAA
GACAGNAATAAGGANTNNNAACAAATTTCCACCCGACAGTAGNCACC
TTTACACNGAGGANAACGGGAACCTTTATTTAAAGGATATTGTCTCATTTCT
TAACACNCNGNAANCCANCCCTTCCCTGATAATAAACTACTGGAGAACAAA
AGCGAATAACAGCAGGTCTCTCTTTTATTCCAATTTCTTACATTTATT
GCCAATGAAGAATTCAAATGCCAAGGGCCCTGCCTAGAAAGCCACTCTAA
AGCAACAAAGAGGTCTGCCAATTCGCTTAAAAAACAAACCCCAAGAGAA
AAAAATTCAAAAACCCCTTATTTAAATGAAACAAGCAAACCTGGGGCCCCC
CTAACCCCTTCTTCAATATAAAGAGACCCCGCCCCCGGNNCCAAATCA
AAAAAACACACCTTTACAATCACTCATACTGAATCACACATATCTAAC
CAATTACTTCATAATTACGACACACCACATATTCACCCACACAGGTGTAT
ACCACTCATATAACCTCACTCATAAACACACATCAACACTAGACAGACTA
CATAATCAACATCCACAACCTCATCACAACAAACACTTAAATGTTCAACA
AATATAACTACCACACCTAATACACCAAGCTTGACTACACTCATATAAA
CAAATCTCGTAACACTCACTTATACTCTACAACACTCTCATTTCACTTA
CACACAAACACCTCTTATTATCTCTCATATCAATCAATAATCATTCGACT
ATCATACACAACGTATACTACTTCAATAGAACTANACTACCAATCTTCC
ATAACTACACGCCG

>Sequence 532

CGAATGTCATTGAAAAGGTCTTCTCGCGCGTTGAGAACTTTCGGTGNNTN
GGGAGNGNGATATTTTTTATTCAATTCGCGATTGACAGNNNNAGATCAA
AATGTTATTAACACTCTTAGAAGACTGGTTTGTTTATTTGACATTGGGAC
GTGCACCAATTTTATTACAAAAATCAAAAAAGTAAAAATTATTACAATA
TTTGCAGAGTATAACCACTAGTTGCCTAGACAAAAGCTAATTTCTACAAA
ATCAAAAACTTAATGCAGTTTTATTAAGAGAGTCAAAATTTCTCAGTTA
ACTGGATATACATAGTGGTATATATCTTAAAGCAGAAAAACCCAAAAAAC
AAAAACAAGGAAAAAAGAAAAATACATGTCAACAGTCAGTTAAATATTTTG
ACCTGACAGTTTCTACAAATAGTGATTTTCACTACATATAAAGGAATCTG
TTACATGTGGTAAAACTTCCAGAAACCAAGTAGGAAGTGTGGAATAAAAA
CAATAAATTCAAACGCAGCCCCAGGCTGGGCCTGTTTTTCATGAAGCCCA
AGACAGTGATCTTTATTATTAAGGAGGGACCACTGTGTCCACAACATAAAA
ACCTTCAACCACATGGTGATCTGCAAAGCTTTATTTGAAAAAGACAAACA
TTCTTTTCTTACACAAATCAATGCAAGAAATTTTTTAAAGGCTTGTACC
TTCCCGGGCCGGCGGCTTTTTTAAAAAACTTTAAAAAT

>Sequence 533

GGTGTAGGGGCACTACCGCGGNNGGTTTTCGAAGNACGATCANNCCCCCA
GCNGCNNGCENGCAAAGANGAGCCGCTGCGAGACGGGTTANTCGCENNCC
CTACCCNNGGANCNNGGCCNNACATNNNCGATTGNGNCAACNGGCGCCACC
NCACGGGAGAAGGNCNNGCCGNAAGGGNNNNACGAAGANCNGCANNNN
GACCNGNNAGCGGANACCAGGATTTTTCCAATTTTTTTTCCACGTTTCC
CACAGGGACACAAACAAGCTCACCAACAAAGCCAACCGCCCTGCCCGC
GTACCTGCCGTTCTT

>Sequence 534

GCGTTTGGAGAACACCGCGGNGGCTTTTCGGGGTCTCTACTCTCTGCAGA
TGAAAAAGCAGCTGAAAGGAGTCGTAAGGCTGGACCAATAACCTAAAAAC
TGAAAGCCTGATTACTGGAGTGACAACTATTGAAAGAAGCAGAAGCGTTT
GCTTATTATCGCCGGACACACACTGCCAATGAGCGGCGGCGCGTGGTGA
AATGAGGGATCTCTTTGAGAAATTAAGATCACTATTGGATTACTTCAT
TCTTCCAAGGTTTCCAAAAGTCTCATTTCTTACTCGAGCCTTCAGTGAAAT
TCAGGGACTAACAGATCAGGCAGACAAATTGATAGGACAGAAAAATCTCC
TGACTCGAAAACGGAATATTCTGATACGGAAGTATCGTCTCTTTCAGGT
AAGACAGAAGAAGTGGTCTGAAGAAGCTAGAGTATATTTATGCAAAACA

Table 2

GCAAGCACTAGAGGC

>Sequence 535

NGACTTTGAGGCAACTCNCGCGCNGGGCGCTGCGNCGGNGNCACGACGCG
CCNNGGCAAAGGGAAGNAACAGACACACGTTTGNGNGGAAGGATGTAACC
CGGGACCAGAGGCNCAGNGNGGGAGAGANCCCNCGATTACCCACCAACC
AGAACGNGGCCCCGCCAGAGGCNNGAACNGAGAGAAAGANNNGGGGCGN
CNAANGAAAAANANAGACANNNCACANAAGCCTTGTCATTTCTTTNCC
GGCGTGACCGNCCACCGCAGAAACANNNCACAANAGGCGNGCCGNNCAA
CGGGGGGAGCAGGACTGTGAGNNCNCNGGGAAGGGGNCAGCGCANCCG
GCAGGGCNCNCNCCCGGNCNNNGGAGAACAGGGGCTCNCNCAGGG
GCCCCAGGGACGGCCAGGCGNCCAGCCAGGAAGGCCAAAANCAAGAGG
GAGANGNAGAAAGGNNGAAAAAAGAAAAAGGGGAGNNGGNGAANCNGN
GNNCCNCCCAANNGGANGANNNGGCANAAAGGNNNAGCANGNCCCN
CCNNCCNCAACCCCCCNNGGNCNCCAATAACAAGAGAAACNCCAAAG
GAANGGGGAGGGCCGAACCCACAGGCGGAGAACCCGGCACCCCAAGCAN
NCAAGAAAAAGGCGCCCCAAAAACAACCCCCCAAGGG

>Sequence 536

GGCTTTGAGGCACTCCGCGGNGGCCCTCGNCGNGCTTCTCAGCCAGANAC
GNACAGCCNGAGAGTNGCTGGNAGACTCTTTTANCANCCGCCCCCACNA
TCCATCCATCNGCTCATCTTTCTCCATCTGCTCAACAAACGCTAGAGAA
TCAATCCTTGTCAGATACTGGGGCTGCCCTCAAGGAGCTTTATAGAG
TTCAGGGNACCTTTTCGCTCTTTTT

>Sequence 537

GGCTTTGNGCNACTCCGCGGNGGCCCTCGCAGTANNATCGNNGGCC

>Sequence 538

GCGTTTTGGGGCACACCGCGGNGGCGTTCNGANGTACGATCNGCGCCCGC
CAGAACAGGCCACAGCCAGAGCCCTGCGGCGNGCCTCATTACNCGGNACA
AGCTNGAGCGGGGGGACAGGNCGGCGGGTTTTGGAAACACTGGACTGGAT
GGCAGATGATCCAGAACTCCGCTCCGTTGGCTCCCAAGGATCCCACCA
ACTCATCTAATCAGCGATCACTGTTTTAATTCTTTTTTNCCTATTAC
TATNNCACAGATCAGGCCTACCTCATTGGCATATTAAGAAAGTTGTCTCA
AGTATATTTAGTGTATCATTTTACTATAGTTCTTCAAATGACTGACAT
TCATCTTTCCCTACCTCTAAATTCCTTTCTTTTACATTATCTTTCTT
GATTGCTTTTTTAATAGAAAAACANACAAAGACATGGATTTACTGTGCATA
TTAGCAGATCCATACTGGAATATGCATGGAGGTTTCATATACACCACTTA
CAGAAAGAATAACTCAGAGTATAAAGTCGAAAAGAAAGAATCTGAAATAT
TAGACTTGTCTGGAATAAGCGTACCTAGGATGATACCACTTCACTTAAT
CAGATTTCCCTTTCCACTATTTAACAGGGCAATATAAAAAACTGGTAGT
TAAATACACAAGAGGCACTTATATTACTGGCTCCTCAACCCA

>Sequence 539

CCGGGCAGGTACTTTCTTTTTTATAGTTTTTTTGTTTTTGTGATTTTTT
TTTTTGGTTTTTGTGTTTTGTGTTTTTTTCTTTTTTTTTTGGTTCTT
AGAAAACTGAGACACGTGAGGCCAGACAAAGCAAGGCCGGGGCTGATGG
CCTGGCTGCCTGGTGGTTGATGGTTTTGCTCCCCCTACCTTTTTTTTGA
GTTTATTCTGATTGTTTTTTCTTGGTTCTGGATAAACCCCTCTG
GGGACAGGATAATAAAACATGTAATTTTTTAAGAAGGAAAAAAAAAAAA
AAAAAAAAAAGGGCCCCGGGCC

>Sequence 540

CCGGGCAGGTACTTTATTTGCTAAAAAATGCTAATGATATCCAAACCAT
CAGCTACTTGTAATCTTTTTGCTGGTGGAGGGTTTTGTCTCAATTTTGGT
GGCTGCTGACTGATCAGCGTGGTGGTTGCTGAAGGTTGGAGTGGTTGTGG
CAATTTCTTAAAAATAAGACAACAGGCTGGGTATATTGCCTCATACCTGTA
AATCCCAGCACTTTGGGAGGCTGAGGTGGGAGAATCTTTGAGGCCAGGA
GTTTAAGACCGGCTGNGCAACATGGTGAGACCGTGTGTCTGCAGAAAT
GAAAAGAAATTGGCTGAGTGTGGTGGTGCATGCCTATACTACCATCTACT
AGGGAGGGTAGGATGGAAGGTTTGCTTGAGCCAGGAATTCAAGGTTGTG

Table 2

CCACTGCACTCCAGCCTTGGATGGCAAAGTGAGATCCTGCCTCAAATTTA
AAATAAAATTAATTAACCANANAAAAAAAAAAAAAAAAANNAGGACCTCGG
CCGTCTAAAACTAGGGATCCGCCGGCTGGAGGATTTAATATCAGCCTATT
CCCCCGGCCCTGGGGGGGGGCCCCCCCCCAATTTTTTTCCTTTAAGG
AGGGTAATTCGCGCTCGCCAAAATATGGAAATACTTTTCCTTGAAAAA
TTGTATCGCCCAAAN

>Sequence 541

GGACGGTCAGAACCGATACCACCGCGCGCGCGCTGATGTACTTTTTT
TTTTTTTTTTTGTAAAGACACAAGTAGTGATATATCAACATCTGTTT
AACTCGTGACCGTTTCTTTTTTCAACTTCTTTTTCTTTTCAGTGCTT
CTTCTTCCATTACCTTTTCTGATTTCCACTTTCAGTTCCATTTCGTTG
CTATCTTCTGGTAGCCACAGCTCAGCTCCAATCTGCGAAATACGGCACTC
TCTTTATTGACTACTGCTTCTCTCGGCCCGCGCTGGCCNACGGGAGTA
CCTGCCCGGGCGCGCT

>Sequence 542

GAGGGGTGACTCCCCGCGTGCGCGCGCGCGCGGTACAAAATGTAAAG
ACGTTGTTTGTATTTGTAAGGCTGGTGTATTCAGAGAGCATATCTCTTAT
TCCTCACTTTCCACCCCCGTATTTTGTAAATGACCATGATCAATGTTTTTA
CTTTTTGTATAATGGGGTGGGGTGGAGTGGGGGCTATTGACAGTCACCCT
GAGGTCTTTAGAGGACCAGCTATTGTATCACCTTGGATACTTGAAGTTTA
ATGCTCAGTTGGGTGCGGTGGCATTGACTTGGAGGCTGGCATGTTACC
AGAGCCTGGGGCCCTGTATCTGGGCAGCCTTGGAGGATTACTTATGATAT
TGAATGACAGTCTTAAGTGGCAACTCAGCCCAGCTCATGCCCTTTTTTG
CCTGGACATGTGCTATTTTATTCACTTATATGTGATTCACTTGTACGGG
TTAAACTTTCATACACGAATTGTATTGGGACAAAACGGCTGTTGGGGATT
ATATATCCCTT

>Sequence 543

GGACACACCATGCACGCAAAACAAATTGCAATAATGTGATAAGTTCCTTA
AAAGAGGTAAGACCAACGTGCTTTGGGAGCAGAGAAGAGGGAGAAAGCAG
CATCTTGCCTGGATGAGCCAGGGGACACAGAAGAGAAGCCCACTATCTCA
TTTAATCTTTACAACCTCTTGTCAAGGTTCCCTGGTTGTGAAAATACATG
AGATGAATCATGAAGGCCACTATCATCCTCCTTCTGCTTGCACAAGTTTC
CTGGGCTGGACCGTTTCAACAGAGAGGCTTATTTGACTTTATGCTAGAAG
ATGAGGCTTCTGGGATAGGCCAGAAAGTTCTGATGACCGGACTTCGAG
CCCTCCCTATGCCAGTGTGCCCTTCCGCTGTCAATGCCATCTTTAAAT
GGTCCAATGTTCTGATTTGGGTCTGGACAAAGTGCCAAT

>Sequence 544

GAGAGGGTCCCGGTGGCGGCCGAGGACACAATACTTACTTACAAATTTA
ATACTGCTTCAAGGTATTTAATCTAAAATTTTACCAACTTTGATTTGTCT
GGTTAGGATATTTGTTTTAGTGGATATGCTTTAATTCGGATCAATTACT
GCAGTAAATCTCATCCCTAAGCATGAAATGTTGTCAACAAATACCCAGTT
CCATTTAGTTATCAATTAGCCCAAATAAGAGATACAAAGTATAACAGTGA
CCAACCTTGTACCTGCCCGGGCGGCCGCTCGACCACTGACATAGACTGAA
AGCAAGAAGAGTGCTGTGTTTGTGCTATATCCCTCCAACACCTAAGGC
AATGCATTTACATCTTGTGAGAGCAGATAACTCAATACCTGGAAGTAG
AAAATTAGAATCTAAAAGACGGAAGGCATCTAAAGAACAGTTCCCATCAT
GCCACAGCTGAGAAATTGGAGACC

>Sequence 545

ATTTGTTATACCGCGTCAACCAATTTCCAACACAACTATACCGAAGCCCG
GGAGAGACATTAAGTTGTAAAAAGCACTTGGGGGGTGTCTTATATGG
AGGTGGAGGCTTAAACTTCAACATTTAAATTTTGGCGTTTGGCGGCCTTC
ACATGCGCGCGCTTTTTCCAGTTTCGGGGGAAAAACACTTGTTCGGT
GGCACAGACTTGGCAATTTAAATTGGAAATACGGGGCCCAAACGGCCTC
CCGGGGGAAGAAGGGCCGGGTTTTTGCCCCGTAATTTGGGGGCGCGCTTC
TTTCCGGCTTTCCCTTCGGCGTCAACTTTGAACTTCCGCTTGTGCGC
TTCGGGTTTCGGTTTACCGGCTTGCCGGGCCGAGGACCGGGTAATTCAGG

Table 2

CTTCG

>Sequence 546

GCCCGGGCAGGTACCTGATGCAGGGAATTGAAGCCAGACCCAAAACGGGC
AACCCAATAGGATGGCCATCTGCCCCATTAATGCCAGCTTGCCAAGTGT
AATTATTAACAGTGCCCCCTTCACTCTCCAAAGAGTCCCTGTCCAGACA
GGTAATTGTGAAAGTCGCCTTCAAAATGACTGGCCGGTAAGGAAAAGTGA
GTGAGGGAAGCAGGGTAGGTGGAGGTGTGAAAGGGAGAAGGGCCTCATCT
CAGGGTGGCTGGACCTGCACCAGCATCGGCCTGCATGAATGTGCTCCTAC
TCTTGCCAGGCTGAGTATCAAGAGAAGCAAGAAATCTAGATAAAAAATCC
AAATCCGAAACATCAGCGTTTTGAGGTAAACATGTTGGCAATTATTCAG
CTTTATGAAATAAATATTATCTTTCTTTTCTACCCGCTTGGGAGCCTGG
CAAAATATGGGGGGGACCCCTGGCTTCTTTG

>Sequence 547

AAACAAGTTCACATAATCATCAATTACAATAATAATTTTACAATCTCAT
CTTACTATTTATATAAATATTCCTAATCTGTATAATTTTATTATATTAT
ATATTCTTATTAATTTGAGGCCCCGGGCGCGAGTCAGGTAAGCCCTG
GCTGCCCTCCACCCACTCCAGGGAGACCAAAAGCCTTCATACATCTCAAG
TTGGGGGACAAAAAGGGGGAAGGGGGGGCACGAAGGCTCATCATTCAAA
ATAAAACAAAATAAAAAAGTTATTAAGGGCGAAGAATAAAAAAAATTTT
GGCATTACATAATTTTACACCGAAAAGCAATGGCTTATCACCTTCCCC
TTGGTGTGGCACTTTGGAGATGAGGGACCCCTGGGCCAATTINTNCTCCTTT
AGAAGAGGAAAGTTGGGGGTGGGCTTTCTTAGTGAATGNGGCAAGGGGAG
CTTCCCTGTTTAAACAAACCGCCATTCTCAATATTTTGGGAAATGAAC
CCTATTAAANNAAAAACACACAAAAATGTGGCAAATCCTAAAGGTCCCTTC
CGGCGCACCATTTGTTGAAAACCTTTTGTGGGGGNAATTGTCTTCGCTCT
CAAACCCGAACTTGCTGTTCAACTCATTCCACCGTTTTCCCAAGTTTTT
TAAAAATTCCTGGAGGTCCAAAGCCCCAAAAAATAAAAAAACCCAA
AACCAAAAAACAAAAAATAAACCATTAAGG

>Sequence 548

GGCGCCGACGGTACCCCTTTGTAATATCCTTTATATAAACAGTAAATGCT
GTTTCCCTGAGTTCTGTGACCTGCTCTGGCAAATTAATCAAACCCAAGAA
GGGGGTGTGGGAACCCAATTTATAGCTATTCAGTCAGAAAAAACAGG
TTAGACAATCTGGGGCTTGCGACTGGCATTGGAAGTGGGGGACAGTTGTG
CGGGGCTCAGCCTTCAACCTGTGGGATCTGACGCTATCTCTGGGTAGATG
AAGTAGAATTGAACCTGGGGGACACCCAGCTGGTGTCCACTGCAGAAATGAA
TTGCTTGCTTGATGTCTAGGGAGGCCGAGAAATTATAGCAGGAGGTGAAA
AGCACTTCTTATTAGCAGTGGCAAGAGAAAAATGAGAAGGAGCAAAAGCTG
AAACTCCTGATAAACCAATCAGATCTCATGAGGCTCATTAATAACAA
GAATAGCATGGGAAAGACTGGC

>Sequence 549

ACTTGATAGCGCGTGCGTGCCAGTGAACCTCTCAGCCCCGTATGCCGA
CCTGAACCTCACATGCGTCTAACGTCTATTGCATTCAATGTCTGGTGAAAG
AATCTCAATCATGAATGGGGTACCTAACAGACACCTATCCTCGCTGGCGA
AAAGAAAAAATGGGGTGTCTCTCAGACCGTAGACCCCTAAAAGGACCTGCG
GTCTGTGCCCCCGGTCCCTTGCCACACGGCCGACCAACAATACTGGAA
CCCCCTGGCTGTATGAATACGATATCCATCTTATCAATCCCAATAACCCA
CATGGGGGGCCTGGCCCCATGACTTGTGCTTTAGACAGGGTTACTGG
CTCGCTTGGCAAAGGCATGGGCATAACTGGGTGCTGTGCTGAAAAACACAT
CCGCGTCCAATTTCCACACCGTACTAACCGAGACCATATAGGGGTGAACA
CCGGCGTGCCTAACGCATGACCTGAACCACACTAATTGCATCATACTTAC
TGCCCCCTCTCAGTGTGAAAACCTGTCTGCCAGACCGATGCATGCAGC
G

>Sequence 550

ACGTGGTTACCGCCGTGCGTGCGGAGGACTACACGATGATCGGTGATTG
TGCTCATGGGTACCCAGCTGCACCCATGAACTACGCCGAGAGACTGTTTT
AGGCTGTGAGGGACTCAACCGTTATACTGAATGGAGAGCGGGACCACATA

Table 2

CTGGCTGGAAAGTATACTGCGGACAGTCCGGCCCTGCCAACCCTCTGT
GGAGAACCTACGCACTGCACGCCATGCCTGTTTCTACTCAAGCCTCAAG
ACTTCTACCTTGATCTGCTTGCCTTCCTTGACCATCTACCTAGAACTAAC
CGAGTCCCAGCTCCCAACCTGGCATGAGCTTGGACAGGGTGGACCGCCAC
CCTGCCTGAACCATGGAGACAGCCTCTGGGATTGGAGGCCAGAGGCCAGG
GTCAGACCCAACACGGACTCCTAATTTGATGTCACAGACGCAATTAATAA
GCTTATTTAATCCCGCTGGGAACTTAAATTATTGCGGGGCGCTCACTGC
CCATTTTCAAAAAAAAAAACCTGCCCC

>Sequence 551

GTGATGACGACCGCGCGCGGCCGAGGTACATTAGCAAAAACAGTGGACT
TTGTGACCTTGAAAAAGTCATTTAACATCTCTGAACCCTACTTTCTAAGT
CTCTACAAGTAATATATAGTGGGTGAGGTGTTCTTTCTTTGTTCTGTAC
TCGGATGTGAAACTCTCCTTTTGTAGATGAAACCATTCGTAAGTAATAT
AAAGACTTTTCCCTGTAGTTATCTTACAGACTGGAGAGAGTGCTAGTGAA
TGCTTTTGTCTTCAATGCCCATCTCTTGGAATATTGAAGGTGGAGTAGC
AACCGGGCATTATATTATCTCTTGGAAGGACCTCAGCAATGGAGAATA
TCCCCATCATCACAACCTGTCATCACTCTGCCGCACGTGATTGTGGAGAAT
ATCCCTCTCCATGTGAATGCAGAATGAGATTCAATTTACAAAACGAAGCCA
TTAGGGGGGAGCCTTTTTTTTTTAAACCAAGAGAAGTGGGGGCATCTTTCT
CTGGAAGATCTGGCCTCATTTGGGCCGTGTAAAAAATCC

>Sequence 552

TTCTGTGCATTAATTTTATTTTGTATTGTGTTTAAATCGAAGATATTT
TTTTTAAATTACGTTTCGTTAGTTATGTAATATATGGTAGTTGCGTGTTT
ATTATTTTTTTTAGAGATGAGACGAGTGGCCGGCCGCCGGGCAGGTACT
ACAATGATTCTGAAGCACAGTGATTTCAGACAGATACAGTGAACCAAGTG
CAATATGTAAGGATGAAAGAAGAAGAGATGACAAAGAAATCCAAGTAAAT
GCCTTGCTTTTGCAAAATGTTTTATATTAAATCATAAGGGAAGGGAATA
CTGCCCTTAAATGTTATCAAAAAGAGTTTTCTAACAAAGGTTAATACCTTAGT
TCTTAACATTTTTTTTCTTTATGTGTAGTGTTCATGCTACCTTGGTAG
GAAACTTATTTACAAACCATATTTAAAGGCTAATTTAAATATAAATAATA
TAAAGTGCTCTGAATAAAGCAGAAATATATTACAGTTTCATTCCACAGAAA
GGCATTCCAAACCACCCAAATGACCAAGGCATATATAGTATTTGGAGGAA
TCAGGGGTTTGGAAGGAGTACGGAGGAAGAATGAAGGAAAATGCAACCAG
CATGATTATAGGGGGGTTCAATTTAATAAAAGTTGAAGGCACAGG

>Sequence 553

GAGATGACCCGGGTGGCGGCCGAGGTACCCATCTCTGCCCATCACCGCTG
GAATTTTGATGACCTATTGGAAGATCTGGGACTATCTGAAACTAGTGA
GAATTTACACCAAACCCAAAGGCCAGTTACCAGATTACACATCCCCAGTG
GTGCTTCCTTACTTCGAGCGGCCGCCCGGCAGGGACTTCACACCAAACA
CTAGCTCAAGCACTGACGTTATTCTACAGGACTATGAACCTTCATATCCA
CATTTACAGTCCGGACAGATAAAGGAAAAACAACCCAAATCCAGGAGGCAA
TATAAAAGGAAGAGAACAAAACACACATTCATACACTCACACTTAAAAAT
AGGGGAAGACCAACAGGGGAACCTTCGTTCTCTCTGGATGTCTACTTAA
AAATCCCATGTGGTACCT

>Sequence 554

GAGATGCCCGGGTGGCGGCCGAGGTACTCTTGAGATTGCTTTAAATTTTG
TATTGAAACAACAATACATTTTGCACTGTAGTAATGGGAGCACTAACTCT
TACAACAGTTAGTGAATCGTTTTAAAGAATCAGTTCAGTGAGACATTTT
GAAAAGATTGTTTCTGTGCTCTACAATAGCTTAGTGCAATGTGCACTTC
TGTTTTACTTGCCATTTTCCTGCTCTGTTTCTCTGTGACATGAAGCAAC
AGAACTGAGATCAAAGTTAAGATTATATCCTGTTTGTAGTATCAGATAT
TTTTCTGTGTACATTTACATTCAAGTTGATAACACTGGTGGTTTCATTC
AATACAAATTATGCTAGAGAAGTACATTTTCAGACATGGTCATATATAT
GCTATTTGAATTCCTTTATCTTGATACAGATCTTGATTGTGAATCTCTGA
TGATAGATGTGCAGCTAATTTGTCCCGAACTCATGAAGAT

>Sequence 555

Table 2

TGAGAGATCCGGGTGGCGGCCGCGCCGGGCAGGTACAAGACCATGACACGC
CCAAAACACTTCCTGCAGATGTTGTGCTTGGAAAAGTCTGCTTACAGA
AGCCAGTTGCAAGGACCTTGCTGCTGTCTTGGTTGTCAGCAAGAAGCTGA
CACACCTGTGCTTGGCCAAAAACCCATTGGGGATACAGGGGTGAAGTTT
CTGTGTGAGGGCTTGAGTTACCCTGATTGTAACTGCAGACCTTGGTGTT
ACAGCAATGCAGCATAACCAAGCTTGGCTGTAGATATCTCTCAGAGGCGC
TCCAAGAAGCCTGCAGCCTCACAACCTGGACTTGAGTATCAACCAGATA
GCTCGTGGATTGTGGATTCTCTGTCAGGCATTAGAGAATCCAAACTGTAA
CCTAAACACCTACGGTTGAAGACCTATGAACTAATTTGGAAATCAAAA
ACTTTTGANGAAGTGAAAGAAAAGAATCCCAAGCTGACT

>Sequence 556
GAGACTGCCCGGTGGCGGCCGAGGTACGCGGGGGGAGTGGCACTCGC
AGCTGCAGCAAAATCTCAAAATAAAGAGGCAACGGCCTTTCTCTTCTCTC
CATCTCTCTATAGCACACCTTTTATTTCTTTCTTCTTTTAAAGCCTC
ACGAAAGATTTTACTTGTAGATCAACTTTCAAAATGTAGGAAGTCAGAAT
GGGTGACATCATCAGAAAAATATGTGGAGCTGATCACAAGAAGTGAAGAA
CCCAGAGCACGAAAGCGGTTGTGACTCCTGGGCCAGGGAGTTGACAGCG
TCTGGGCTTCAGAGGAGCCAGCGCCTCCGAGTTGTCTTGAAGTGAGGCTC
TGCTGTAGTCTGTTCTTCTGGCTCTAAGATCTGAATGTTGTGACCACTA
ATTTGCTCTTTCTGGAGGGTAACCCAGTTTGGTCCACAAGGCTTGCTG
CCCAATCTTTTGAACAGTTGAACCAAGAATCTGAAGCTGATAT

>Sequence 557
TGAGATGCTCCGGGTGGCGGCCGAGGTACTGGATGTCAGGTCTGCGAAAC
TTCTTAGATTTTGACCTCAGTCCATAAACACACTATCACCTCGGCCATC
ATATGTGTCTACTGTGGGGACAAGTGGAGTGAAAAGTTCGGTTGCTGGCA
GGTCCGTGGGAAAATCAGTGACCAGTTCATCAGATTATCAGAATGGTGA
GACTCATCAGACTGGTGAGAATCATCAGTGTCTCTACA

>Sequence 558
GGGATGTGTCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTT
TTTTTTTTGTTTTGAGACGGAGTCTCCCTCTGTTGCCAGTCTGGAGTG
CAGTGGCATGATCTTGGCTCACTGCAACCTCCATCTCCTGGGCTCAAGCG
ATTCTCCTGACTCAGCCTCCCAAGTAGCTGGGATTACAGGTGCCTGCCAC
CATGTCCGGCTAATTTTTGTATTTTAGTAAAGACGGGGTTTACCATAT
TGGTCAGGCTGCTCTCGAAATCCTGACCTCGTAATCCGCCCCGCTCGGCC
TCCCAAAGTGCTGGGATTACAGGCCGAGCCACCGCACCTGGCCTGTATT
CCCGGTACCTGCCCC

>Sequence 559
TAGATGACTCCGGGTGGCGGCCGCGCCGGGCAGGTACGCGGGGGGTGCCTG
GCTCCGTTTCTGCTTTTGGTTCTTACAGTAGTCGGCGTAGGCCTTAGGT
GGGTTGCTGCGCCTTCTACCTCGCTGTTTCGGTTTCTGCTCCTCGGC
CCTTTTCTCCCTGTTGAGCTGGGAGCGGACGAAGCGCGAAGCTGGGAT
TTTTACTGTCTCTGAAGAATTTAACACAAACATGGATATCAGACCAAA
TCATACAATTTATATCAACAATATGAATGACAAAATTAAGGAAGAAT
TGAAGAGATCCCTATATGCCCTGTTTCTCAATTTGGTTCATGTGGTGGAC
ATTGTGGCTTTAAAGACCTTGAAGAAGAGGGGGGCAGGGCCTTTTGGCC
ATAATTTAAGGGAACGGGGCTATTCCACCAAAAGGCCTTGGAGGACAGGC
TACAAGGGATTTCCTATTTTAGGGGAAACCCCAAGGGGGGAAA

>Sequence 560
GCGATGTGACTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTT
TTTTTTTTTGATCGGCAAGCGACGCTTAGACAGGCGTAGCCCCGGGAGGA
ACCCGGGGCCGCAAGTGCGTTTCAAGTGTGATGATCAATGTGTCCTGCA
ATTACATTAATTCTCGCAGCTAGCTTGCCTTCTATCGACGCACGAGCC
GAGTGATCCACCGCTAAGAGTCGCCCCGGGTCCCTGGCCCCGGG

>Sequence 561
TAGCTACTTTACGCTGTCTGTACATTNTGTCGTATACATGAGTACTGTCA
TAATACTTTTGACACTTGCTGTCTCTAGTTTCTAATATTTATATTATAAC

Table 2

ATGACATTGATCTATAATTTTGTCTTTTATTTTANANANATATTTGCGAT
 GGCTCCCCGGGTGGCGGGCGAGGTACCATGTGGGAAGCGCTGTGAAGAGT
 TGTTGCCCTTTCAAGATATACCCAAATTCOCAGTCCAGCCCCGTGTCATTA
 AAACCTCCGCTGGCGTGAAAGATGACGTCCTTAGCCCAGCAGCTGCAACGA
 CTCGCCCTCCCTCAAAGGGATGCCAGCCTTTTATTTAGAGATGAAGTTGC
 TTCTTTGTATTTGACCCTAAGGAAGCGGCCACAATTGACAGGGACACCG
 TCTTCGCCATTGGTGAGCCATCTTTTAACCTAGAAAAGCTCTTGGAAGCG
 TTTGTTTTCTGGATGTTACTGTTTTTTTTTCCCCCTGTTTTCTCTTCTG
 TACCCGTGCTCTTCTTAACAGTTTCTGCATGTTGATGTATATTTTCAAG
 GGAAAGAGATCATTAACACCATGTGCTTGGTGCTTGAAATGTTTATTAAT
 TTTGAGCGGCCGCGCTCTGGAACCTGGGGGCCCACTGGC

>Sequence 562

AGAAACATTGTGAAGCAAATAGGGCCAGTCAAAATGGCCCCATTGATACCG
 TTAAGAAAGGGCGGGCGTTTGTGGGCGTTTTTTTTTCCAATAGGGCTCCC
 TGCCTCCCCCTGAACGTAGTCAATCAACTAAAAAATTCGGACCGCCTCAA
 AGGTTTCAGTAGGGTGTGCCGAAAAACCCCGTAGCAGGGAACATTTAAA
 TGGATACCCAGGGCGGTTTTCCCCCTTGGTAAGCTTCCCTTCGTTGCG
 GCTTCTTCCCTTGTTCGGAACCCCTTGCCCGGCTTTACCCGGAATAACC
 CTGTTCCCGGCCCTTTTTTCTCCATTTTCGGGGAAAGCCTTGGGCGGCTTT
 TCTTCATTAGCCTCACG

>Sequence 563

GCNNAGCCCCGGGNNGATCCNATCTAGNTTNCNAGNAGNCNNGGCCGNN
 CCCGGGGCCAGNGTAACCNCGGGNNGGGCCCCGGGAAAGGTTGGGAAAA
 AGAAAAAAGGGTTTTCTTAAAGTTGGGGCTTTGGGAGGGGGTAATTTCC
 CCCCCAAAAGGAGAGACCGGGGGGGCCCCGGGCCAAAACGCGGGGGGGGG
 GGGGGAACCCCTCCCAAATTTGCGCCCCCTAATAGAGGGGGGGCGGTAT
 TTAACCCGGCCGCTTAATGGGGCCCCGGGGTTTTTAAAAACGGTGGGAAC
 TGGGAAAAAAACCTGGGGGGGTTCCCAAATTAAGAGGCCTTTGGGAAG
 AAATACCCCTCTTTTGGCGGGGTGGGGGGAAATAAAAAAAGGGGCC
 CCCACAAAAGGCGCTTTTACAAAAAATTTGGCCCCCTCTTAATTGGGA
 GAAGGGGGGGCCCCCTTTTGGGCGGAATATAAAAAGGGCGGGGGGG
 GGGGGGTGGGGTTTTTCCCCCAACCGGGAGGGCGCGTTATATTTTTGTG
 GGGGGGCTTATTACGGAGCCTTTTNTNNNGTGTTTTTTTCCCCCTCT
 TTTTTTGTGGGAGGGAGC

>Sequence 564

AGGTACCAAGTAGGATAATTACTACTGCCAACACACACATGCACGCATGC
 ACACACACACACAGATGTATGCACGCACACACACTCTCACTCCTAGACTG
 CTAAAGCAAAAAAAAAAAAAAAAAAAAAAAAAAGTCCCTGGCCCCGGGGC

>Sequence 565

NGGATTGGAGAAATCCGCGGNGGCGGTTGGNNGCAATTACTAGACCTCNGA
 CCNCGGCACTAAGCANCGNCACCCTGAANAGANTGTTATCCNNCCCTCC
 CCNNGNAGAAACCNCGCGCCANGAGTTTCAAGNNGGAGGAAGAAGCGACT
 GCGCAAGCNGAAGCGCAAAAGAAGAAAGANGAGGCAGAGGNCCAAGNAAA
 CCGCNAGCNNGNNGCACCGNNGGAGGCCTTTGTTTTTTAGGTTTTGAANGC
 CAGACGCTCCTTATGAAAGTACCAAGAAGTGGGAAGCGGGGTGAGCTGCT
 GAAGATTTTGGTATCGACAGGGATGCCATTGCACAAGCTGTGAGGGGCC
 TCATCACCAAGGCCTAGGGCGGGTATGAAGTGTGGGGCGGGGTCTATAC
 ATTCTGAGATTCTGGGAAGGGGCTCAAAGATGT

>Sequence 566 -

TCGAGTACGCGGGGGGGGACTGGAGGACCTGTCTGGTTATTATACAGACG
 CATAACTGGAGGTGGGATCCACACAGCTCAGAACAGCTGGATCTTGCTCA
 GTCTCTGCCAGGGGAAGATTCTTGGAGGAGGCCCTGCAGCGACATGGAG
 GGAGTGTCTTGTGTGAGAGTCTGTCTCTGCTGCTGATGAGTGCAT
 TTTCCTTTGTGTGGGAGTGAGGGCAGAGGAAGCTGGAGCGAGGGTGCAAC
 AAAACGTTCCAAGTGGGACAGATACTGGAGATCCTCAAAGTAAGCCCTC
 GGTGACTGGGCTGCTGGCACCATGGACCCAGAGAGCAGTATCTTTATTGA

Table 2

GGATGCCATTAAGTATTTCAAGGAAAAAGTGAGCACACAGAATCTGCTAC
TCCTGCTGACTG
>Sequence 567
TGGATTGGGGCCCTNCGCGGNGGCGGTTGANGGCNTTTCGNNGCCCCNCAC
CANNNAAGGNCGAGGGNNCCCTGGANGANTGGTTANTCGGCCCCCCCC
CGGGCNCNGCAGGCCGNCANNANCGTTGANGCNCGCGGGGCGCNGCCCC
TGAAAACCCCGNACCNGCCCGGGCGGCTGCNCNAGAACNAGNGGANCCCC
CGGGGGCAGGAANNCGAGAGCAAGTTTTCTTTTTTGGTTTTCCCGAGG
GGGGGCCCTTTCAAAAAAAATGTCCCCCAGGGAGGGGGAGGGCGCG
CTTTTTTTTACAACGGCACAGCCGGNCCCCGGGGGAAANNNGGGAACCGC
GCACAAANCCACACAACAGACGAGCCGGGAGCACAAAGGGGAAAGCCCGG
GGGGGCCAAGAGGGAGCCAACCCCCACCAAGG
>Sequence 568
GCGATTGGAGCTACACCGCGGNGGCGGTTTCGGGCGAGACNNCTCTTGNC
CATCTTCTCCCGCTGCTGAAATTTNCTTGGCGGGCGCTTAACCCGAGGA
CCCCTCCCCCGCGTACGCTGGATAGCCTTTTTTCCAGAAAGAGAGTA
GCGCGAGCACAGCTAAGGCCACGGAGCGAGACATCTCGGCCCGAATGCTG
TCAGCTTCAGGAATCCCCGCGTACCTGCCCTTTCTTTTTT
>Sequence 569
GCGCTTTGGAGCNACTCCCGCGGNGGCGGCTCGAGNGACAATTACAACC
CCGNNAANCCAAGGGNNNAGGGNANCAAGCTGCTGNGATNNACTAATAC
ACAAACCCAGACAGCAGNAAGGNCAGAAGAACCTTGGAGAACAGCAGAA
GCAACACCGCAGAACNCNGAAGGCGAGAGAACAAGNCAANACANNNA
CNAAAAACAACGCGAGAGAACACNGGGAAAAATTTCTTTTTTAGATG
TCCACAAAAAGGACATGTAAAGGGGAAGGTCAAGTTGTTGAGACAGCTA
CTTTATTCTTGGGATGACTGNGGAGGTGGTGGAGATGAGCCTTGTGTC
AGATTTCCGTTCTAGTTCACGAGTCGTTGACCCACAAGGTACCTGCCCC
>Sequence 570
GCGATCGGAGCAACCCGCGGNGGCGGTTGANGNCGCGACAGCCGANGAAA
GAAAAAGGGAGCCAGGCCATTTCCAGCCGATTAANCCGNGGGGGGAA
CGGGGNNNAACCCGGGAAAAATTTAAACCAAGAGGGGAAAACCCAGAA
AGGCCANGGGGCCGGGAAACCCACCCAGGGGGGAAAAAACCCGCC
CCCCGAAAAACCCCCCCCCCTTTTTTAATTTTTTGGGGGGGGCCCC
CCAAAAACCCCCCCCCCGGGGAAAAACCTCCAAAAAAAACCC
CCCCCCCCCCCCCTTTTTTGGGGGGGGGAAAAAAAACCCCAAGGG
GGGGCCCCCGC
>Sequence 571
NGGCTAGGAGCACACCGCGGGCGCTGGGGCCAAACAACTGTCTGTAAGAG
GGACCTCTCATGGTTACAGGCTTTGACAACCCAGAATCAAACCTGGAGAAC
ATTCCGAAGCCGTTCTTATAAGTGTCTCCATCTCTACCTGGGCTGAAATG
GAATGTGCAAAATGTAGCCAGCCTGGTCTTGGGTGTTGCCAGTTGATTG
ATGACTGGGAGCCAAAGTGGCATTCTTTGACCTAAACGGGCGATGATG
AAATAAATCGAGCGGCCGCCGGGAGGTACATCTGTGAATGTGAATGCC
AAAGCGAAGGCATCCCTGAAAGTCCCAAGTGTATGAAGGAAATGGGACA
TTTGAGTGTGGCGCGTGCAGGTGCAATGAAGGGCGTGTGGTAGACATTG
TGAATGCAGCACAGATGAAGTTAACAG
>Sequence 572
GGCGTTTTGNGNCNACACCAGCGGNNNGCGTTCGNTGAGNGATCNGNCG
GCCGNGNNNCNACCGCGNCCNNCCNTTACTGNGGGCTTTGAGGCNCC
CGCCACGGAAAAAGNNGGCCCCGAGCCAGAGCTTTTGCAGCCNNNGAG
GGCGNGGCCGAGGCAANGGAAAGNNGGANGNAAAACGAAGNACAGGAGC
AGANNNGAAGAANNACAAAGNAAANNNGGNGCTTTTCAGTTTTTAGAGAG
TGACCACANAGCCTCTACTTCTGATAAAAAATGTTGGGAAAACACCTG
AATTAAGGAAGACTCATGCAACTTGTTTTCTGGCAATGAAAGCAGCAAA
TTAGAAAAATGAGTCCAACTATTGTCTTAAACACTGATAAACTTTATG
TCA

Table 2

>Sequence 573
CCCCAGAAAAAAAAAAGGCCCTGGGGCCACCCAGANAGAACTCAGGG
GACAACCACGCGCGCGCGCCCGGGCAGGAACANAGCCCTCAGGGGG
GNCGGAAACCCCGCANAGGACAGGACANAAAGGAAAAACAAAAAGCGCAA
GCCGGACACACACAGGACAGCGAAGGGCAACGAGACCCAACGCCGGAC
ACAAGCCAAAAACACCAAAAAACGAGAACAGAGACCACGGGACGGAAGCCAA
AACGACAAAGGGGGAGACTGCAGCCACAACAAGACGGGCGGGCTCGGCGC
CCGCAAAGGAGCGCCGCGCGCGCGGCGGAAGAACACGCCCCCGCCCCC
GCCGGCGGCGACACACACAGCAAAAAACAACCCGGCACGCACCAAGGGGG
AGAAACAGCCGCCCGCGGAGACGGGGCGCCCCGCACACCAAAACACC
AAGACAG
>Sequence 574
>Sequence 575
>Sequence 576
NGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGTAGGAGCC
TCTCTCCCTACTGCTGCTACACAAGACCCTGAGACTGACCTGCAGGACGA
AACCATGAAGAGCCTGATCCTTCTTGCCATCC
>Sequence 577
CCGGGCAGGTACAGAGACCTCCTTACTTACCCCCCTTCTCCTTCGGCTGG
AGCTCGGCGAGCGAGAGGGCGGCTGGCGTTGGAGAGCGACGGCGGCCCC
CGCGTAAGCAGTGGTAACAACGCAGAGTAACGCGGGAATGAAGAATCTTA
GGCGGGTGCACCCAGTTTCCACCATGATTAAGGGTCTTTACGGAATAAAG
GATGATGTCTTCTTAGTGTTCCTTGCAATTTTGGGACAGAATGGAATCTC
AGACCTTGTGAAGGTGACTCTGACTTCTGAGGAAGAGGCCGTTTGAAGA
AGAGTGCAGATACACTTTGGGGGATCCAAAAGGAGCTGCAATTTTAAAGT
CTTCTGATGTCATATCATTTCACTGTCTAGGCTACAACC
>Sequence 578
GCGATTGGAGCTCCACGCGGTGGCCCCGCGGGCAGGTACCTCACAACGA
GTTCACTCAGTAGCAGAAGGATCTTCTCTTGTTCCTGATGATTCAAG
GTCCTCACAGTCTGATAATCTGGTTCTTCCGAAACTCCCAAATATCTA
TGGAGAGCTGTTCTAGCTTTTGCACAGGGAACCAAGTGGACAGAGGTATCA
TTAAACATGTCCATGTATTGCGAAGTCTGAGGAACTCAAGCTCCTCCAG
TCCTTTTAAATCTTTGCAATGTAGGGATAATTTTCTGCAGAATCCTTG
CCAACAACCTCTCCTCAAGTCTTTGAACTGTTCCCAATGATGACCATC
TTAGAAAGGGCATCTACTGACCAGTACTCCATAAAAGATTGTTGTACCT
CGGCCGCTCTAGAN
>Sequence 579
NGGAATTGGAGCTTACTGCGGTGGCGGCCGAGGTACTTTGGACAGTGAGG
GTTGATTCAATTTAGGGGTAGGGTTGGGGGTGGGAGTGGGAGTGTGGGT
TGGCAGGAGGAAGAATGAGTCTACTTTGGAGACAATTAAGTCATGGTACT
TTTTTTTTTTTTTTTTTTTTTTTTTGGCTACATAGACATCTTCTCATG
TATTGTTACTAGAACAACCTGTATAGGGTTTTATGGTTTGGGAAAAACAT
TTTTAAAAATGGACTTATCTCTATTATACAGAGTTATAATATAAAAAATG
ATTTAAAGGCTATATTTTTCAGCATGTAGGTAGCTACACTGTAATCCTGT
TGAAGAACTTTCTATTTAAGCTTATAGGATGAAAATATATAATTAAG
TCTTCTGATCATAGCTT
>Sequence 580
AGGTACCATCCAAATGCTTCCCTGGTCTTGATGATCTCTCCAGAGTCGA
TCTGAGTGGCCTTTTCTGCACCTCCCTTCTTCTCTTTGAATGGAATT
AAACCCAATTTGGAAACAACATTGACCCAGTCAAAAGCTTCTAATGGTTT
CTTTTCTTCTCCAGTTTTAGTTTGTCTTTATTAATAAAAGAAAATAGT
GCATGGCCATAGTCTCCTCAGTTCTCTTATTGCAGACTAACCATCAGGAT
GGTATCAAAGCACAATACTTTGGAGGGGAATGCGTTGAACTGGGGCAAG
TACCTGCCCC
>Sequence 581
CACTCGGCACTCTCGGTTCTCTGCTATTTTAATTGTATTTGTATAATAA

Table 2

CAATACGTATTTTACTACATTCCTTTAATGTACATAGATATCATATACTT
ATTTATTCATTAANTTATATTATGGTTTAGTAGTGAGCTC
>Sequence 582
GTTTTTAGAGATGAGCTCACCGCGGTGGCGGCCGAGGTACCAAATTGTAA
AATACTCGAAGGCCTTCAGGAACCTGTGACTGATTTACATAAATACCAGA
ACCTATTTTGGATGAGGTAAAAGACATGTGCTCATCTCCAATTACAGTTT
CAAGCTGCTGTCGGCCAACCTATCAGCGGGGAGGCCACAAAGCATAAGA
ATTCTTTTGGGATTACACTGACATCAATAATTTTATCACTATCTTCCAT
TACACTATTGTGCACATTAAGCCAATTTCTGATCATCACATACTTGTG
TAACTGCTGCTGGGGGCATATCTAAGCTTTACGT
>Sequence 583
GCGCTAGGAGTACTCGCGGNGGCGGTTAGGGCTCTACCGGACCNCNGACC
CTCCNGGAACCGAAAAGGCTGGNGCGGGTTTCANCCAGGNCNCACTGANN
GNCGGACCACANGAGNCAAACTTAGGNCNAGCNCAGAGAAAGCCCGAGAC
AGCAGGGCAAAAGCGGCNNGCGCCCCGNGGAACANCGCCAGCCNCCTC
ANAANCCANNNCCAGACAAGCTTTTCAATTTTTTTTCAAATCCGACATCTA
CTCCAACTACATGATACACTAAAGTGCTTGCTGTGTGGGCTTCCAGGGGA
GATGAAATGGTAAGTCGGGCTGCAGCATCTCTGTTCAAATATACACCAA
TTTCTGTTTCTCAATGGCACTAATCATAACGGCTCGCCCTTGGGATCCA
CAGCTAAGAAGCTGGCCAGGAACGA
>Sequence 584
GCGATTGGAGCTACCCGCGGTGGCGGCTGAGGGACATTACGTATTGGTTA
TACAACATTTGTTTAAATAAATGCAACTAACAAAGCTACACAAGACTTAGA
TATTGAAGCAGAAAAGGTGGTTTTACAGTCCCTGCATTAACCTCTAATTC
TTACTACCCTGGCCAAGAAAGCATTTTCACTCCTGCGCTTCTCTTCTG
TGTGCTTGTGGTTGGTTCTTTCTTCTCAGGCTTTCTTATTCTGATGCTGA
GATAGTTCTGTTCACTTAGCAACTTGGGACAGTGACACAGGGTTTGTCT
GTACAAGCAGGTTATCCAAGAGGCATCCATACCCTGGGTTTTCTCCAAC
CATAAGGAAAATTGATGCAGCTGTTTCTGACAAGGAAAAGAAGAAAACAT
ACTTCTTTGCAGCGGACAAATACTGGC
>Sequence 585
TAGTACCTGGGCCACCAAACACAGCTGGACTCAATATATGGGGAAGGTAA
GTGTCCTCAGTTTTTTGGAGAGAGATTACCCTCTTCCAAAAGAGTGCTTGA
TTCTGGTAGTCCAAGCTGTCTCCGTCTGGTGGCACCCCAATTTCCCTGC
CTAGACCCACCTCC
>Sequence 586
GCGTTTGNNGCACTCCGCGGNGGNCCTTGNNGNCTGTACTNGCACCN
AGGAGACGCNNGNAGNCCNNGNATTTNNGNNGGATTAGGCTTGAAGACG
CGGNNNANGCNNNCAGAGNCACANCAATTTTGGNCGAAANAGGAGCCCA
CACAGAGGAAGGNGAGGAGGCCNGCAGNACCNCGGCCGCNCAAGAACN
AGNGGANCCCCGGGCGGCAGGAATTTAANCTTTCTTAGGGTTCCGNG
GACCNCCCGGGGGGAGACGGNACCCAGCCCCGCNCCCGGGAGGGAGGGN
NAACNGCGCGNNGGCGNAANCANGGGCANAGCCGNNCCCGGGGAAAA
NGNNANCCGCNCAANNCCACACAACAAACGAGCCGGGAGCA
>Sequence 587
GCGATTGGAGCTCCCCGCGGTGGCGGTTCCGGTACAGCTTTAAAGCATC
ATAATGACTAATTATAGGTGAATAATTTTACAGACAGTCTATATTCTAGG
AGGCAGCTGTAGGCGTTTTAATTGGAATAAGCATTCTGAGATAATGATA
ATAGCAGTGTAGAAAAATGAAGCTAAAAAATTCAAAGTGTGAGAATCC
TCTGTCTTCTGGGATTTTATTTAATCATCTCTCCACAGAGAACAA
GCAGNACTTTNTTTTTTTTTTTTTTTTGGGGTTTATTTATGCACAA
AGAGCCATCGTGGTTTTTTATTAGGTAGATGCCCTGGATAATCCTTTCAA
GGAAGATCACTTAGTCCAATTAATGAAACCAATATCCTTCGCATACT
>Sequence 588
GCGTTTGGAGCACCCGCGGNGGCGTTCCGGCCGGGCTACTCAGCCANGAGG
GAAACCGAAGAGCCAGANNGTAAAGNGCAGATTAAGACNAGANCGCCGAG

Table 2

GNNCGGGACAAGAACCGNGAAGGGTTGATGGACAGGGAAGAGACCAACGA
CTGGATCCTTCCCTCAGACTATGATCATGCAGAGGCAGAAGCCAGGCACC
TGGTCTATGAATCAGACCAAATCAAGGTTTTTTTGCTGTCCAAGGAGGAG
ATCGCTGACAAGTATGACTTATTTGTTGGCAGCCAGGCCGAGATTTTGG
GGAGGCCCTTAGTACCT
>Sequence 589
GCGTTTGGAGCACACCGCGGNGGCGTTCNGNGGACTATCATCNGNCCGCA
GANCAGACTNGCAGCCGACCAAGTTATGNGGGGATTAGACAAAANCCCG
GANNNACCNNTNCCACTNTNNGAGGACTTTGTCCAGGGTCTCTGGTCTAC
CGATGTCAAAGCAAATCAGCACAGCATCCGAATCAGGGTAAGAGAGGGGG
CGGACATTGTCATAGTAAGGAGAATCCGAATTTTCCACAGGCTCAACTC
TATCTTTGTGTGTCGATTTCAAACTGGCCGTGTAATTCTCAAACACTG
TAGGAACGTAATTCTCGGGGAAGCAGTCCTTGGCGAAGACATGGAGCAGC
GCAGTTTTTCCACACTGACTGTCTCCACCACAACCTATCTTGCAT
>Sequence 590
GCGTTAGNGNCNACACCGCGGNGGNNCTCGNNGTACNATCTGNGGGACAG
CANGCNACNGNCNAGAGCNGNNTTAANNNGNCNAGTTTAGACTNGCCCC
CGAACGCGGANACCCNCGAGACCCACCTTTTCANAAACAAAAGGCCCA
AGCCGGAACACNGCCCNNGGACCNGNGACANNNGGACNANNNCNNGNNGN
AANNNGGCCGAGNGAACAACCATTTANATTTTTTTCGTGTTTGNNGAGC
CCGCGAANNAACTAAAAAAAAAAACCCCAAAAAGGGGGGGGAAAGNA
CCCGCCTTTTT
>Sequence 591
GCGATTGGAGCTCCACGCGGTGGCGGTGCGCCGGCAGGTAAGGTTTTT
ATCTCTGCACTCCAAGTAGGATGAATAGATAAGAGCAAAGGCTCATGTTT
GCCAAGTCTGCTCTTTTGTAAACAAAAACCCAGCAGCTTTATCAAGCAGA
ATTCCACCTGTATTTCTTAACCTTCCAGAGCTGAGTCTCATGGCCACCTT
TAGCAGGAGTTGGGGAGGTATTTTTTAAACAGGCACATTATCATCTCCCC
ACCCAAAGTGGAGCTATTGCTAATGAAAAAGATACAATGAGATGTTTATG
AAATTATCTGTAGCTATTAATGTCAGGTTTTTGAATTTACTGACCTGGA
AGAATACTCATAATGCAATGTCAAGTGAGAAGCAGGACAAAGAACATTG
CAATACAGTT
>Sequence 592
TGGAGTATGCGAATGAGCTGCACCGCGGTGGCGGCCGAGGTAAGTTTTT
TTTTTTTTTTTTTTTTGCCCAGCAATTAATAAATTTTTTTTTGTAAA
GACTGGATTTTGCCATGTTGTCCAGGCTGGTCTGGGATTCCTGGCCCTCAA
GCAATTCTTCTCCTCGGCCCTCCCTAAGTGCTGGGATTACAGGCATGAGC
CACCATACCTGGCCACTTCTTCACTTCTGTTGGCTTTGCGTCCCCGATT
AAAATTGGTGAGAAGTTCCTTCGGCTGGGCTGAGGACCCGAGGTCATGGG
TGGATCTCATGGAGAGAGGGCGAGGACAGGGGACCGGTCTCCCAAAGGAG
TCCTCTGTCTTAAGTCTTTGGCCCAAAGTGTGGAAGGGCCCCATAAGA
GGGGGGCCCCACCCACGTTTTGTGGGACAAAAATGTTTTTTTTTTGGG
GCCCCCGGTTCTATTAATAAGGAGAGCCCTCGTTTTCTTCCGGGG
GGGCTTTTTTATTATAAGTATATAGTCTTCCCTACCCACGTCGA
TCCATCTATATATATTTTCATATTTTTCCCCCT
>Sequence 593
GGGAAACATGGCAAAGATTGTCCTGGGGGAAAAAATTGTTCCCGCAAAA
TCCCCAAAAAACTAGCCGGGGGAAAAAAGTAAAAAGCCGGGCGCT
CCAGGGGCCACCCACACCCCTTTTTTGGGGGGGGGGCCCCCTCCCCAA
CTCGGGGGACCCCTTTTGTTCCTCTTAATAGAGTCCCCCCCCCGG
GGGGGGGGGGGGAANAAAAATTTCTTTCTCAATTATAAAAAAGGGGG
GGGGGGGGGGGGG
>Sequence 594
TGTAAGGATTGACGGGGGCGCCGGGTCAGGTGCGATTCTGGATGACAAA
GAAGATGCTTACTTCACAGAAATTCGAAATTTTCATTGGGAACAGCAACCA
TGGCAGCCAATCTCCAGGAATGTGGAGGAGAGAATGAATGGCAGTCATT

Table 2

TTAAAGATGAAAAGGCTTTGTGCGAGCGGCCGCCCGGGCAGGTACTTTNTT
TTTTTTTTTTTTTTTTTAAAGGAGCTTTATTGTTTTAGTAATCTTAAC
ATAACTTAAAAAAGAGAGGGGAAATGACATCTGGAGATCTAGGTATGTG
GCCCATTTGCAATTGAGCACATTTCTTGGGTCTGTTTCTATCTCTAAGG
GCAGTCTCAAAACCCAGCTCAAAATACGACACTAACATGATGAACATGC
ATGAGCTTTGAAAAGTGCTCTGTAGTCTTATGATGATCTAGAAGAGCACT
GTCCAATAGAACTTTCTGTGATGATGAAAAGATTCTACTTTTGACCTATT
CAATANGGTAACCACTTATCA

>Sequence 595

ACTTTTTACTCTATAGTACTCTTACTTGTATTATTACTAATCTTATTT
TATATTAATTATTTATGTAAATTTATAATACATATTTATAATTTTAT
TATATTTTTATTAGAGCGAGCTCACGGGTGGCGGCCGCCCGGGCAGGAC
ATCGTCACCATAGTAAGAAATGTGTTGGTTCGACACAGACTAGAATGGTCTA
ATAACTAGGTATAGGTTAATTCTTATGTGCACCCTTGACAATATGAGGAA
ATGTAATACAAGCGATACACAATATTTGAAGTGAATGGCTTATTAAGA
GTTAATCAAAGATAATTTCTTTTATAAAACCTAAAAATAGGTGAATTTTG
TGAAAGCATCAATAAACTTTTACATGTTTATAGTGCTTACCCTCAAATGT
TTAATTGATTGGTGTCCAAAGTAAACATTTGGGTGTGCATATCTCTAAAA
GTTTAGTAAAAATTGGCCAATTATGCNCAAAAAATTTTTAAAAATAGGGA
AATCACACCCTTACAATTTTTTTTTCTTAAATCAAAATTCACCCCCCT
CCTTACTTACCAATAAAAAAGAAATTATTGAAACCTTCATTTTTTCTT
TTACAAGGTGTCGTGGGGTAGGGAAAAGAATTATGGGTGATTCCAATGG
TGGTACAATTGGGAAAAACAAGTTAAGCTTAATATTTTATGGAAGTTATTT
TATTTGTTAATGGAGGAAAAAATGTGCAGTTTTTAAACTCTTTGGGT
AAAGAAGTCTCCAATTATAGTCTGCCCAAGGGAGTGGGTTTTAATGAGAA
TATTAATTTTTTTTATAAACGAGGTGTATCCTTCGGGCACGGATTTTAAG
AAG

>Sequence 596

GAAAACGAAGTTGAGCTCCACCGGTGGCGGCCGCCCGGGCAGGTACTAT
TTAAGAAAAGAACAAGGTAACTAACTAAAAGCAGAACTCACTTATTTTT
TGCTCCCTAGCCAATTAAAAAATAAGTTCAATTAAGCACTTGAAATTATA
TATTTAACCTGAAAAAAAGTTGCTAAAAATCCAATATAAATGTAAATATC
TTAACTTGCTTAACCCAGCTATCCCCAAAACAGTGATGTTGGGCAAAAT
GTTCAAAAGAAAAATCATCCAGTGCACGTAGATGGGCACCAAGAAGCTAA
GCTCCCTGGCGCCTACCCTGGG

>Sequence 597

TGATTGCTGTTGAGCTCACCGCGGTGGCGGCCGCCCGGGCAGGCACTTTT
TTTTTTTTTTTTTTTTTTGAGTTACTCTGATGTTTATTTAATGCATC
TTAGTCCACACAGTTGGTATAAAATCAGAAAAATGCAAGCAAAAAACAAA
GGTCTGGAGTCTTAGCATCAGAAGGGCACCATATATACATCTACAGTTGG
TGGCCAATACAAGTCATTGCCAGACAGTCTTGGAGGCACAGAACAGCCC
AGACCCAGCCAAGCTCTAGGAATCACGGGTCCCAGGGAGTTCTAAACCC
TTGTTCTGATGCTCCAACCGTAAAAAAAATGTGGGAGTGATGAAGGCTTT
ATGATTTACTCATTATCCCGCGTACCT

>Sequence 598

TGTAGTTGGCTTCAGCTCCGGGAGGTGTAGAAAGGCGCTGGGTGTTCAAA
ATAGGCTCTCTGGCCACGGCTGACTGTCTTCTTGTGTCTCTACAGTG
GACGTGACTCTGGACCCAGACACGGCTACCCAGCCTGATCCTCTCTGA
TAATCTGCGGCAAGTGCGGTACAGTTACCTCCAACAGGACCTGCCTGACA
ACCCGAGAGGTTCAATCTGTTTCCCTGTGTCTTGGGCTCTCCATGCTTC
ATCGCCGGGAGACATTATTGGGAGGTAGAGGTGGGAGATAAAGCCAAGTG
GACCATAGGTGTCTGTGAAGACTCAGTGTGCAGAAAAGGTGGAGTAACCT
CAGCCCCCAGAATGGATTCTGGGCAAGTGTCTTTGTGGTATGGGAAAGAA
TATTGGGCTTTTACCTTCCAATGACTGCCCTACCCCCCGGGACCCCGT
TCACCGGGGGGGGATTTTTTGGGCCATGATGCTGGGGAGGGCCTCCTTT
ACAAAGTGG

Table 2

>Sequence 599

TTTTTTTGGCGCCCCCTCCCGTCCGGTAGAAAATAGAGGTTCTGACTCC
TCAGGAGCAAAAAACATAACCTGAAGAGGGAGGAAGTGGATTTGGGGTTC
ACCATTTCTTGGGGCACACTTGATTGAAAACCTGAGACTTCTGAAGAGAAG
GCCAGAAGATACAAAGACAGACCATGCCAGTTGAATGCTGTCTTCCAAGA
ACAGAAAGAAAATGATCCAGGCCAGGAATCCATAACACTGGAGGATGTGG
CTGTGGACTTCACTTGGGAGGAGTGGCAACTCCTGGGCGCTGCTCAGAAG
GACCTGTACCGGGACGTGATGTTGGAGAACTACAGCAACCTGGTGGCAGT
GGGGTATCAAGCCAGCAAACCGGATGCACTCTTCAAGTTGGAACAAGGGG
AACAACCGTGGACAATTGAAGATGGAATCCACAGTGGAGCCTGTTTCAGAC
ATATGGGAAGGCCCTTCATGCCCCCTGGAACGCTTGCCAAGGGAAAGCCTG
GGGGACAAAAGGAAACCATGTGATGGAC

>Sequence 600

GTTTGTGCGCACCACGCTCCGATGGCCCAGGTGACCAATGGCCGCAGGCT
CCATGGCGGCTGGCTTCTTCCAGCCCTTCATGTACCGCGCTTCCCAGGG
GGCCCCGGGCCACCCCTGCGGATGCCGAGTCAGCCTCCCGCAGGCCTCCC
TGGCTCCCAGCCCTCCTCCCTGGCGCCATGGAGCCCTCCCCACGAGCCC
AGGGGCATCCGAGCATGGGCGGCCCAATGCAGAGGGTGACGCCCTCCTCGT
GGCATGGCCAGCGTGGGGCCCCAGAGCTATGGAGGTGGCATGCGACCCCC
ACCCAACTCCCTCGCCGGCCCCAGGCCTGCCTGCCATGAACATGGGCCCAG
GAGTTCGTGGCCCCGTGGGCCAGCCCCAGTGGAACTTCGATCCCCCTACTG
CTTCTCATCCCCGGCAGCTACACCGGACCCCCAGGAGGGAGGTGGGGCC
CCTGGAACACCCATCATGCCTAGCCCTGGAGATTCCACCAACTGCAGCGA
AAACATGTGCACTATCATGAACCTT

>Sequence 601

TTTTGAGTACTAAGCTCGACGCGTAAAAAAATAATAAAATAAAAAATCT
GTGCAATAATTTAAAATGTGCTCCAGGAATAGACACAAATGTTTGTAGT
ATCTTTTAAAGCTGCATTTTCTTTAGTGATGCATTTGTCAATTGCACTGA
ATTTAAATCTGAAAGTCAGAGGTGATTATTGATAGTACTTTTGTATTTTG
ATATGGACAGTTTATTCATTTGCATACAGTTATTGACTTTTTCCAGCTG
ATTAAAAGATAGTCAAGAAATTCTGCAATATAGCTGCCAAAATAGACAGC
TACATTTTATGATATTGTCATCTTTCTGNTTTTTTTTCTTTTTTTTC
TTTAGCTATTTTACTTAAGCATAATAGCCACAATAGGACATATAAAAGAT
TATAAATACAGAGCTTTATTATCTTGACGTCTTGGGTCTTTAAGTATAT
ACTTTTCTGAAAGGTATCCATTTTGTAGGCTTGGGTTTCTTATGAACATA
CGATGTTT

>Sequence 602

GACCACTTCTATATATCATACGAATGAAATCGATTTTGTCTACCGTAA
CATGTACCTCATACTGTATCTATAATTCTCAGTATCAATGATCTAATAC
CAGTGAAGACATCATGAATAGACAACCAAGACGAGGTGCACACCTTGGGA
CACCTCATCTGCGTGGGCGGCAAGATCGGAGCAGCGACGCTGCGGGCT
ACCCCATGCCACCCATGACCTGTAGGGACCACCTCTAGATGCCTACTCG
ACTCAAGGACAACACACCATGTCTCCGCTCGATCTGGCCAAGCTGAACCA
GGTGGCAAGACAACAGTCTCACTTTGCCATGACGCACGGCGGGACCGGAT
TCGCCGGAATTGACTCCAGCTCTCCAGAGGTGAAAGGCTATTGGGCAAGT
TTTGGATGCATCTACTCAAACCACCCATGAACTCACCATTTCAAAAAAC
TTAATTGGCTGCATAAATCGGGCGCCAAGGCCGCCAACATTAAAGAGAA
CCCGCAGATGTTCCGGGGGGCCAGGATCAAAAAAGCCAAACCCAGGGG
AAGGGCTCCTCTGGAAGGGCCGGGTACAAAACACTGGCTCTTGCTGGCAA
TATTAGATCTGGCCCAAGTATTCTAAATAAAGGCCGGGCTTTTCCTTCTGA
AAAAGGCATGGGGGGGCGACTAAG

>Sequence 603

TACATCTACTTCTGTTTCATATCGTTAATACTATCTATTCTTATTTTCATCT
AGACTAATTATTTTATATTCTATTACTTTACTATACATATATATTATCA
TATTTATATAATTTGACTCACCTTAATCATTTCATATTTTTTCTTATTAG
TATGATGGGCGGCCGCCAGCGTCCGGGAAAAATTACCTGTCTTGACTGC

Table 2

CATGTGTTTCATCATCTTAAGTATTGTAAGCTGCTATGTATGGATTTAAAC
CGTAATCATATCTTTTCCTATCTATCTGAGGCACTGGTGAATAAAAAA
CCTGTATATTTTACTTTTGTTCAGATAGTCTTGCCGCATCTTGGCAAGTT
GCAGAGATGGTGGAGCTAGAAAAAAGCCCTTTTCAGTTT
GTGCACTGTGTATGGTCCGTGTAGATTGATGCAGAAATTTCTGAAATGAA
ATGTTTGTGTTAGACCGAGAATCATACCGGGTAAAGCAGGAAATGACAAAG
CTTGCTTTTCTGGTATGTTTCTAGGATGTATTGTGACTTTTAACTGTTA
TATTANATTGCCAATATTAAGTAAATATAGGATTATAATATTGTATAGGG
GTTTTACAAAGCTTTAGACCCCTTTACCTTTACGCCACCCCAAGTGCC
TTGATATTTTAGAGTCAGGCATTGGTTATACATGTGTAGTTCCAAAGCAC
AT

>Sequence 604

TCGTATCGTAACTTATTTAATTGTTATATTAACATATACTCTATCTTATA
CACTTATATTACATCACTTTTCTACTTTATTATTTTCTTACCAAT
TTCGTATTAATTATTTTACTATCTTGTGATGGGGCGACACGCGTCCGA
GACAATACAAAGTTACATTTTGGACCATATTAAGTGAAGAAGACAG
GGGTCTTACTGAAGATCTTTTAGAAAACCTTAAATCCTGTACAGGATATT
TAGACATGTGTAGATGTAGCTCAATTTTTTAAAAAGTAACTGACCTAGA
GGGTGAAAGTTGAAACTGACACATTTTCAAATTAAGATTATGCTTTATTT
TGTAACAGAAAACAATGTTTAAACACAAGCAGATCTGTTGTATGTAATAA
GTAACACAGAGTTTAAAAACAATTTAATTATTAGCTTTATTGAAGT
TTTGTTTTTTCTTCCGAACCTGGAGTTATCATAATTATAAACAGCAG
TTTTACACCAGAATTAGCAGTGCCCTTTTCTTTTGGTACATACTGGAT
TGGAACCTTTTCTTACTGGGTACCTGGGACCACTTTTATGTTAGTTTT
TGATGCATAATTCTTTGGAATCCCTTTTATACAAAACCTTAAATTGTTGTG
TAAGAAAAACCTGTCCCTGGAATGTAATTAAG

>Sequence 605

TTTAGAGGGTTGAGCTCCCCGCGGTGGCGGCCGAGGTACCCAAATACCAC
TTCAGGAAATCTGGCCAGATCACCTGAATCCAAATGTTCTATTAAATCAA
TACACGTTATCAAGTCAAATCCAAGCAAACGAGAGTCTCTCTCCACAACG
GAGCCATGATACAATGTGATGGTCAAATTCAGATCCCGAGGTTTCAGAAA
ATCCCCCAGGAAAGGAGCTAACGAATCCCTCTCCATCGTAATTTATCCT
CATTAATATCTACTCCAACAAGCAATTCAATGCATGGATTGACTTTTAGC
AGCCTTAAGAGTGAAGTATCACCACATCCCAGGTCTGCAACCTTCTTAGG
CTCATGTTGATCCACTAAATTTTAAACGAACTGGTACCTGCCCCG

>Sequence 606

AAAGAATTGAGCTACCGCGGTGGCGGCCGGGTACTTAAAAATAATTACTGG
CAGTAGGTTATAATTGGTGGTTAAAAATAACATTGGAATACAGGACTTG
TTGCCAATTGGGTAATTTTCATTAGTTGTTTGTGTTTGAATTTGAAA
CCTGGAAATACAGTAAATTTGACTGTTTAAATGTTGGCCAAAAA
AAAAAAGGTCCGCGGGGCGGAGGTGAGGACAGATGGTGC
CACCGGTGCAGGTCTCTCCGCTCATCAAGCT

>Sequence 607

TTTATTTCTTTTATATTATTATTATTATTTAAATAATTTATTCTATA
TAATCTTATTATTATTATTACTATTCTTTTATTATTCTATTTTATAT
ATATTTCANNNCTTTGGAATGTGGACTGCACTGGCGGCGGCGATGAGA
AGAAGAAGGGGCCCCAAAGTCACCGTCAAGGTGATTTTGACCTACGAATT
GGAGATGAAGATGTAGGCCGGGTGATCTTTGGTCTCTTCGGAAAGACTGT
TCCAAAAACAGTGGATAATTTGTGGCCTTAGCTACAGGAGAGAAAGGAT
TTGGCTACAAAAACAGCAAAATCTATCGTGTAAATCAAGGACTTTATGATC
CAGGGCGGAGACTTCACCAGGGGAGATGGCACAGGAGGAAAAA
AAAAAAGGTACCT

>Sequence 608

TGAGAGTGGTTGAGCTACCGCGGTGGCGGCCGAGGTATGCGGGAGCTGA
GAGAACAGACAGACCTGTCCGAAGGTCTCTGCAGGTCCCCCTTCCGC
TCTGCCGATCGACTTCCGCTCGGGCAGTCAACATACTGCCAAGGAAATC

Table 2

TGATGTGGAAAGGAAAAATAGAAATAGTGCAGTTTGCTAGCCGGACACGCC
AACTCTTCGTTTCGATTATTAGCTTTAGTGAAATGGGCTAATAATGCTGGC
AAAGTGGAAAAATGTGCGATGATTTCAAGCTTTTAGATCAGCAAGCCAT
CCTGTTTGTGGACACTGCTGATCGCCTGGCCTCGTTAGCTAGAGATGCTC
TGGTCCATGCACGCCTGCCTAGTTTGGCCATCCCATATGCCATTGATGTA
CTGCCCCG
>Sequence 609
TGACTCACCGGGTGGCGGCCGCCGGCAGGTACTTCGCCTTGCCGTTAG
CTGTGGAGAACGTGCTTCTTATTCCTGGCAGGCTTCAAGAACAGCTGCA
CATGTGCCGCTAACTGACCGGTTGCCATTGGCGACCTGGACTCTGAACT
CAGGTTTATTCTAAACCCAGTGAGAGGTGAGGGGGAGTGATGAAAGGGGA
TCAGCTGTATTTGTGTGTGTGTGTGTGAGCACCTGACAAATCTATGAA
ACCGAGTGAAAGGAGAAATGTTAGATTCTTTATTATTTTATTATTTAT
ATGGAAAGCTCGACTCTCCCTTTGGTAAGTCCGAAGCATGTTGTCTGTTT
GTCCGTGACTGTCTTCTCAGGTCTGTGGCCTGTGATTTCCAGTCAACCCT
TGTAATTACTGACAGGAAATTGACTGGACTGTCAATTTGTGTTGAAGTCTA
GGAGGGAAATGGGCCATTTTAATTGTATGAATTTGGTCATAAGTAAGGA
CTTTTATATGTCACCCATATTAGATATATGTACCTCGGCCG
>Sequence 610
GAGCACCGGGCGCGAGACTGNTTTTTCTATATAAAGTGATACTG
AAATATGCTAATTAATATATTAATTTTAGTTAAATGCTGCTAATATGCAT
ACCTCTTACTTGAAGGTTTTAATATGTTTTGATAACTTTAATAACTTCA
GGTATGTCTGTATAATTTTAAAGTGCAGCTCTCTCTAACAAATGTGCC
CTACAACCTCTGATTAACGGCGTCTTGAAGGTTCAAAAAAAAAAAAAA
AAAAAAAAAGGTACCTGCCCCG
>Sequence 611
ATTCTTATACCCGCACATATTACGTTTCTCTATTACATTTTCTATTTT
AATTTTACAAATTCATCTCGATATTTTATTCTGTCAATTTACAACCTTAG
ATTTTCTTTTCTTTTCTTTAGTTTCGACTCACGTGTGGCGGTGAGGTA
ATGAGAAATTGGCATGCCTTTGCTAATATTTACTGCAGAGTGTAATCCAT
GTTTGATAGACATTATAGTAATGTTTGAGTAGGGTATTGTACTATATTCT
TAGTGGTCTTATACGGTAATAATCTAATACAGTAAATACCTGCCTTGC
CTTTTCCCTGGATAGTTCTGTAATATTACGAAATTGTTGTACTAACCTC
CGAGCAATGTGATCCTCAATTTGGTGTGGACTTAGGCTTCGCCCTTTTCC
ATGTGGGTGCAATAGAGCTAATTATTGGCTCAAGTTTCTGTAGGTATAGA
GATCTTTCTCTACCAAGTAGACATTATAGTCTCAGGGGGACGTTCTCTT
CTCTCGTGTGGGTAACAAGGTTCACTAGAGGCCACCTTATAATTTTCC
CTTCCCTGGCCTTCAAACCTTGTGAAAAAGGCCTTTGTCTACCATTAAA
TAGGTAAACCATGGCTAGAGGTTTCATTTCTTCCCAAACAAGTATTCTT
ATGACTTTCTAAGTTTAAATAAACAACCTTCTTCCCTTTCAATATAAT
GAAATGGTCGTAATAAGGAGGTGAATAAAATATTTCCCAACATTATAGTC
CTTAAGCCAACCTTGTATAAACCTCAGTATTGGTTCTTAAGAAAGCAAAT
GTCTTTGGTAGGTGAACCTTACCAATAGTTTGGTTCCTAGGGATGGATAT
TCTCTTGGAAAGGGCCTAGGCAAGTAACCCAACAAAGGGAATGGGCCCCC
CTAAATTTCTTGGGTTCTTGGAGCGAGGTCTTGGCTATAGCCCCCG
>Sequence 612
GAGACAGTGAGCCACCGCGGTGGCGGCCGCCGGGCAGGTACCAAAGAAG
ATGCAGTTCAAAATACTGCCAGTTTTCAGAAATTTGTAAAGTTGAAC
ATGGCCATCTACTCTTGCCTTAAACCTTTCTCACCACACCCACCTTCCC
ACATGCATGATATCCAAGGTGACAGACCTGGATTAGAATCCACTCTCAA
GCTTCTCATGCAGTGCATTTGTATTTCTGCATAAGAAAGGGCTGCCTC
TAGAACACAGTAAGTGATTTGCCAGTAGTGACATTGCCTACATATAGC
CAAGTGTTATAGTATACCAACTTAGTATATTTTCAAGGAGAGCTAAACC
ACCTTTTGTAAATGGTTTGGTTTCTCACTGTTATCTTCTTCTATAATT
AATTTATTTTAACTACAAATTGACATAGGGCTAAAAGCTTCAATATTTT
ACAAAATATTAATTAATGTAATTGTTCCCAATTATTAGAACTTTTTTCC

Table 2

ATTTTAAAAATGGTTGCCAACTTACA

>Sequence 613

GGAGAACTACTGTAGTCGCCGNCGTATTTCTGTAGATCCCACCCCCAGG
AAGNCCACTTTGANGAGGCCATCAAAACGAACGGTTATACCCNCCCACA
NNNCACNCNGAGGGGANGTTTACAAGNNCACCCGGNCCCCGCCTGGGG
AAAGGAAAGCTAACTCCACGTCTGTTCCAAAGGCCTCTGCTGGTATTTAC
TTTACGAGAGGCCACCTTATCCAAAGAGCTATATGCCCTGGGGGGCCTT
GATGGGCTTCACACAGTACCTGCCCC

>Sequence 614

GATGATTAAGCGAATAGTAGATTNGGCGGCCGATGTTGTGAGATCTACTC
ATAGNTAAGAAACATTCTTTATAAAATTTTGATCCCTCCGTTCAAGCCAAT
ACCATAATTTAATTACAGATGGATATTATATGGTAACGGGTATTTACAGA
AGGAAGGGTGTATTACGGAAAAAGCTAACGGCAGCAGCTTTATTTTCC
CCCACAATCTTTTCATACAGGAATAACAAATTGAACCTGCAAAAGCACTA
AAACATCACATGTAAACCCAGCTAACAGAAAAATACATTCACAAGCGTTG
TTGGTGGTGGTGTGTATGTGTGTGCTATGGGTCAATGTGCTGAAGAAACA
GAAGGGAGACTTTGGCAGCGCTCATTTTTTTCAGTCTATAGTTACATGAA
GTTTACAATTAGGTTGCCCTATAAAAAGGAACCCCTTATTCAATACCCCA
ATACCAAATAAACCCCTTTCTTTTCACATACTTAAAAAGAAACCGGGTTAA
CTAAAAAGAGGAAAGAAAGAGGCC

>Sequence 615

TAGAGGAGCTCACAGCGCAGCGGGTGGCGGCCGCCCGGCAGGTACTTT
NTTTTTTTTTTTTTTTAATTTTCCATGTATTGGCCTTAATCAAACAT
AAGCTGTGGAGTGGCCAATATACTCCATTGTGATTATACACTGATTTCCA
TCACCTGCCTTTGTACTATCAACTCTTATTAGATTAAGGAAATAGACT
GAAATTGGGAGNGAGGTCAGCGGCTGGCTGGATAAGATGTTGGGCTCAGA
AGAATGTATGTGAAAGACACCAAAGGCCTCTCCTGTATGGACACAAAATC
ATATAACCATTGTGTCTGAGCTGGGTTGTGGATAGTCTTATTTGGCAGAG
GGGGATAGCCATTATATTCTATGAACCTTGCCAGCTGTACCT

>Sequence 616

TAGAGTGGGATCCGCCGCTGAGGCGGCCGAGGTACTGTGCCCTCTTTCTT
CACTAGGTGACCAGAGTGGTTTTGACTCCTGTGGTGTGCTGAAGTCATTCT
CAGGGGTCTCTATGACCTTTTCCCTCCTGCAGTTCACTCTAGTTTCTTCT
ATTTTCATCATCCGCACTGCTCTTAGCATCGAAGTCACTGTCTGCATCTGG
TTCTCTACTTTTCATCAGTTTGAAGAATGCATTTCTCTTGTGGTATTCT
GTTTTTGAACCTACTTCATTGGAGAAGCCCCCTTGATTTTCTTCTTTA
TACCAGATCTGGCTTCAGAAAGCTGCATTTAGGTACCTGCCCC

>Sequence 617

GTGCAAGGCCCTCGCTATACTAATTTTATAAAAAAACTTTCACAAATT
TCCCTTGGAACCTGGAACATAAAAAGGATGCGAATTGGTGGTGGTAAACT
GGGTATTTGGAGTTATATAAGGTTCCCAAAAAGGCATATTCCTTTCAAAA
TTTTCAAAATAAAGAATTTTTTTACTGGATTTTAAATGGGGGTGTGCCA
ACTCATTAAGGATTTTATAATGGGTGGGGCCCCCGGGCCCCGCTTCGAA
AAAACTCTTTGGCTTCTTGGAATGAATCCTGGGCTGGGGGTTCGGGTG
TGGAAGGGTTTAGTTATTTAAAGGGGGGAAATGGG

>Sequence 618

CAGCGTGCAGCTCACCGCGGTGGCGGCCGAGGTACTGGGACAGTTGGGTG
CGTTATGGATCATAACCTGAGGAGCCGGGGGAAGCTGGCCTTGGGTGTTT
TACCTCAATCATATATCCACACAAGTGCTTCTCTTGACATTTCTCGAAAA
TGGGAGAAGAAGAATAAAATTGTTTATCCTCCCAACTGCCTGGAGAZCC
TGAGACCAGCAGAAATCTACCACTGTGGAAGACAAATAAAATATAGCAAA
GACAAGATGTGGTATTTGGCAAAATTGATACGAGGAATGTCTATTGACCA
GGCCTTGGCTCAGTTGGAATTCATGACAAAAAAGGGGCCAAAAATAATTA
AAGAGGTTCTTTTGAAGCACAAAGATATGGCAGTGAGAGACCATAACGTG
GAATTCAGGTCCAATTTATATAGCTGAGTCCACCTCGGGACGAGGCCA
GTGCCTGAAACGCATCCGCTACCATGGCAGAGGTGCTTTGGGATCATGG

Table 2

AGAAGGTTTATTGCCATTATTTTGTGAAGTTGGTGGAAGGGCCCCACCT
CCACCTGAGCCACCAAAGACGGCAGTTGCCATGCCAAAGAAGATATTCA
GCAGCTTCGACGCCCCGACCATCGTTCACACTCTATGATGAGGAGAATTAG
ACTCCACAGTGTATATATTTTGGCATTATTTTCTAAAAATAAACAAAAA
TGGAAGCCAAAAAATAACCTGCCTCGGCGGGCGTCTAGAA
CTAAGGAATCCCCGGGCTGAAGAATTCGATATAAGCTTATGGAACCGCGA
CCTTGGAGGGGGCCCGACCCAGTTTGGTCCTTAAGAGGTTAATGCGCC
TTGGGTAATATGGG

>Sequence 619

TTAAGAGCCGGAGCTGCACCGCGGTGGCGGACGAGGTACCTACTATGTGT
CAGCCATGGGGGATACAAAGATCTATAAGGCACAAGACCCTCAGTCTTGT
AGTCGCCTGACAGCCAGCCAGCTACAACTAATGTGGAAGGACAATGGT
GGGAAATGCACTCAGGTCTTCTAATGCACAGAGTATGCTCAGGCTGTGA
CATAGGAANGAAAAACAGATACTTTACCTTAACACNGGACTTGGAGGGAC
CTTCAAAAAACATGTGATGGTGAGGAAATCCAGTTTAAAAAGTCTTGATT
TAAAAAAGAAAAACACTTTCTGTGGATAAAGATAGGCTGCAGGAAATGT
AACCTATGAAATTTTCTCAAATTAGCTTTCAGACACACAAAAAATTGC
ATTGTTTGAGGAGCAGAATGTAACCTATATTAAAGAATAAACTACTATT
TAGTATCTGAGTGAAGTACCTGCCCG

>Sequence 620

AGTGAACCGCGGTGGCGGCCGCCGGGCAGGTACATTCTAATTTTTATGA
GACATAGATATGTATTTATAAAAAGATAGATGGAAGAGAAGAAATTAAC
TTAATTCTAAGAGCCAAATTTACTCAGAAGGTTAGAAACACCAAAATTA
ACAGCCAGTTTTCTTGATTTTCTTCTTGAAGAAGAGATTGGTGTGACTA
TGGTGAGATATACTATGGCCTTGAGAGGCAGTTTCAACTTGAAAAAGA
TGCAGGTTGAGCAATCGGAGAGGACTTCAAAGAAGCTGATGAGCTCTCCC
GTGGACTTACTTTGACAATGTTGGAAGAATCTGGCTGGCTAGTCTGAACT
GGAGTGGCTTGAGAACTCTGGGCTTCTTATTCTCAAAGTCTTTTTGTT
TGCAAACCTTTTTTAGTAACCTGCAGAGGTATAAACTGATTGTGCACA
CCCCCTGGTATCCCCCAGCCATGGGCATGGTCCCAGAAATATAAAGTATG
ATGGAAGGGCTTCCAGGAAGTGGCACCAGTGGTCCCCATGGCATTGAGC
CAAAGAGATGAGACGACGAAGGCATTATATTAGCAATAGGTGGGGGAAAA
GCTGGAGGAATGGTTTCAGGTGGTACCT

>Sequence 621

AGACGCCCCGCGGTGGCGGCCGAGGTAAACGACGCTGCCCATGACAGAGC
CTAGGAAATCGCGATGACAGTTTACAGCAGGTAAATCCGGTGGAGACCA
GCAGCATCCCCGAGAAGCCGTGCGATTGTTGGGCGTATGTAACCTCGCTG
GTACTCTTGCGCCAGGGGCGNGCCCGCATGCTAGNAAN

>Sequence 622

TGATGAGACTGAGCTCACCGCGGTGGCGGCCGAGGTACATTTATTTTCTAGA
TAAGGACAATAAGTTTACTTTGTATCTGAACTCAAAACAAAGTAGTTGTA
TATTTTAAACATTCAAAATTTGGGATTTCCCAATGTGACACATCATGAATGC
AAACCCCTCCAGCCCATCAGACGCCAGGCTGCCTACTGGTAATCTGTGTA
TAGTATATAAACATGTAAAAATAGGTTGTATTTTACTCTATGTATGATGC
TAATCAATGAACACTTTATTTATTTTACAGAGAAAACTTATCTGTGAACT
TTACTATATATCTGTTTATTTTACTTTATTTTTTTTAAATAAAAAAGGGG
TTTTAAATGCTTTGCCGTCCTTAGTTAAAAAAATTTTTAGGACTTTGG
CCCGGCTTGAAACTTTTTTAAAGAACGGGGAGAAACCCCTCGTGTGCAT
CCAAGTAAAGTTTTTTATCTAAAGAAAGGTTCTTCATTGCTTTTCTGACA
CAGTTGTGGCTCTGTTTTTTNGAATGAACTGGTTTAGATATC

>Sequence 623

TAGAGTGGCTCCCCGCGGGGCGGCCGCCGGGCAGGTACAGCCATTGCTCT
TTGAGTTTGTCTGGCTAGCAAAAAGCTGGCTGTGTTATGTAAATAAAGCC
CCTATAGTAATTAATAAATAAAGGTTTTTAAGCTGGCTGTTTTCTT
ACCACTTCAGAGTCCTTGACCCCGTAATTTAGGTCCCTTCAGATTTGAC
AGACAGAAACAAACAACAAAACAGTTAAGCAAACTAACAATGGTCACAC

Table 2

AAATTATACAATTTCTGAGTGCTCTAAGTGCAATTGGAAGAAAGCTGAAAC
TCCATAAAAACATCACCTGCCTTCCATCATCATGAAAGCAGGAAAACTTG
CCTTCCTTGTTGNGAGCAAAGTAAAACTCCAAAAAAGAGGTGTTGTACCT
>Sequence 624
TGTTATGACTCACCGGGTGGCGGCCGAGGTACGGCGGGGAGCCGCCTGGA
TACCGCAGCTAGGAATAATGGAATAGGACCGCGGTTCTATTTTGTGGTT
TTCGGAAGTGAAGCCATGATTAAGAGGGA
>Sequence 625
TTTAAGGCGTTGAGCTCCACCGGGTGGCGGCCGCCGNCAGGTACAAACT
GATCTTCATGAATGTGTGGTCCACTGCTTTTCTGTTTCTGTCACAGTAGC
TATAAACAGCTGTTTAAGGATATCCTTATCTAAATTTCTGCCAATGAGGA
CCAATCGATTTGTTCTCTCAGTGTCACTCCTCCAGCTCACTGAGTCTCTC
ACATAGAGCTCATCCCGGTACCT
>Sequence 626
CCGGGCAGGTACGCGGNGATGAGTCCTAGGAGGCGCTGGCTCTTTGGCGG
CTCGGAGGAGCGGCTGCTGCTGCTGCTGCTGCTGCTGGTGGCCCCCTTGC
AGATGTA
>Sequence 627
GGAGACTGATGAGCTCACCGCGGTGGCGGCCGCCGGGCAGGTACTTTTT
CTTCAGAAAAATTTCTCCTTGAGGAAAAATGTCCAAGATAAGATGAATCAC
TTAATACCGTATCTTCTAAATTTGAAATATAATTCTGTTTGTGACCTGTT
TTAAATGAACCAACCAATCATACTTTTTCTTTGAATTTAGCAACCTAG.
AAACACACATTTTCTTTGAATTTAGGTGATACCTAAATCCTTCTTATGTTT
CTAAATTTTGTGATTCTATAAAACACATCATCAATAAAATAGTGGCAAAA
AAAAAAAAAAAAAAAAANNGGGTACTCCCTGATAAAGGGGGAATTTCCAT
GCCGTCTACCGGGGATGACCTGGAAAAAATTTTTAAAAACCCGGTTTTT
CTTTTTTTTTTAAAAAAGGGGGCGAAAAACCTTTTTGTAAAAAGGGGG
TTTATACACACGGGGGGGGGGAATTTCCGGAGGGGTTTTTTTTTTTTT
TTAAAAAAGGGGGGGGGCCCCCAAAAAATTTGTTTATGGACAACA
CACAATTTTTT
>Sequence 628
TAGTTGGACTGACCGTGGAGGCGGCCGCCCGGCAGGTACGCGGTGGAAGA
CGGAGGCGGTTCTACAGAGACGTAGGCTGTGAGGGAGTGTATTTTCGCG
TGCGCTTCTGTTCTCCGCGCCCTGTGCTGCTCCGACTCACATACTCGT
GCAGAACCGGTCTGAGCCTCTCCGCGCAGAAGTGCCCGGAGCATGGCGGT
ACCT
>Sequence 629
TAGAGTGGAGCTCACCGCGGTGGCGGCCGAGGTACAGACGACGTACCGT
ATATCTTCTTTTCGGCCAGTGGAGGATATCACCGAAGAGGACTTAGAAAA
TGTTGCCATAACTGTTTCGAGATAAAATCTATGATAAAGTTCTGGGTAAACA
CGTGCCATCAGTGTGCGACAAAAGACCATCGACACCAAGACAGTGTGTCGA
ACAGTGTGTGGTGTGCGAGGACAGTTCTGTGGACCATGCCTGCGGAACC
GCTATGGGGAGGATGTGAGATCGGCATTGCTGGACCCGGATTGGGTGTGT
CCCCCTGTGCTGGGATCTGCAATTGCAGCTACTGTGCGAAG
>Sequence 630
TAGAGTTGAGCTCACCGCGGTGGCGGCCGCCGGGCAGGTACATAGTGTC
GCGAACTCAAAATCGGCATTTAGATAGATCCAGTGTTTAAACGGCACGTT
TTTGCTTATAAAAAAAGTGCAAAAAAGATGTGGTTTACAAGTTAAAGCTA
CAGAAATCCCTTTTTGCTGTAATTGCACCAAGTTTTAAAGCCTCTGACAGA
GCAGATCGTTTAAAACTTTGTTTTTCTTAAAGCTTACAGTGTGTTGGCTA
ATTCTCTCCCTTTTACAAGACGGGGGCCGGAGGGTGGACACTGGTGG
CAGGTTAAGGGATACTGTCACTTTAAGAAGCCTGCAGATTGAAGTGTA
CATGGAGAAATTAGGGGCTGATTTTTTAAACTGTGTGAGATATTAACCA
CCGCCCTGTTATAAAATCAGGAAATCCAAACAGCGATTACACCGATTAA
CACCCCTTTATATATTTTTTACAAAAATACACTGAGAAAAATAATCAAAC
GTTTTCATCTCTCTTGTCTTTTTTGTTTTTTAAAGTGCAAAAGTCTA

Table 2

CATTTAAATATAAAAAATTAAAAGTTAAAACCTCTAGCCCTTCAGTGAAGG
AGACGTAAAAATGGCGTGGGTAACAACAACCTACCAAAAAAAGAAAAAA
AAAGAAAAAAGGAAAAGGAAGGAATAAAGAAATAAAGGGAGTAAAAAGA
AAGGAAAGAAAAAAGGGACAAAAGAAAAAATATGTTTGGCCAGTATAAA
TACGTTTCACATATAAAATGCATCTGATTACATTAACAAGGAAAAGAAATA
CGAGGATGGAGCATCGGTGAGGAAAAAACACGTTTCTCATTTACACCTAT
AGGAATAAACACAACACTN

>Sequence 631

AGGTCATCAGCTTGCCCTCAAGTCTGGAAAGAAATTGGCTTGGGCTCATCA
AGTTGAAGGGACCACCAAAAGAGCTAAGATTGCTTGTAATACTCATGTGG
CCCCTAGGATGCACCGACTGGTAGTGATGAGCCAGGTTTACAAGCAGACA
CTGGCTAAGAGCTACAGACTCTGGCGGGGGCAGATGTAAAGATTTCATCG
TTGCAACGAATCTTTTATATCTGCTCTCTCCCTTACGATCTGTGACAA
TTGAGAAGTGCAGGAATAGCATCTTTGTCTTGGGCCCTGTAGGGACTACA
CTTCACCTCCACAGTTGTGACAATGTTAAAGTCATTGCTGTTTGCCATCG
TTTGTCATCTCTTCTACAACAGGTTGCATCTTTA

>Sequence 632

AGGTACCACACTCAGGGCAGTTTCCAGCTCCTCTCACAACAGTAAATCT
ACACAACCTTTCACAGAGAGTGTGTCCGCACACATTACCATCAGCTTCAA
GGAGGGGTTCCGATATTTGGTGGTCTTACACCGAGGGCAACCCGTATCGT
CCATGGCGGTTTCCCTCCTACAGACTCTCGCAGGCGCTGTTTCAGCCAG
AGCCACCTACAAGCCCCCTCCCCGCTACCACCACACTGTCCCAAATTAC
CTCTTCATTACCCAAATCAAAGAATCTTTCTGTTTCCCAATCCTCAAAA
GGAATGAAGAAAAACCAAGAGCAAACTCAAAAGATGATTTTACCATAA
ACCTCAAATGTGGCTTAACAAGTACCTGCCCCGGGCGGC

>Sequence 633

GCCCATTGCTGTTTGTGTTTGCTTGAAGACCAAGACGGAGTTGGGCCT
CTTGA

>Sequence 634

CCGGGCAGGTACTGAAAACCACTTCCAGAGTCTAAAGCAGCTCAGATGTT
ATCTCTGGGGGAATTAGTGTCCCTCATTTAGCAACCTCCATACCACAA
GGTCTCTGTCTGTAGTTACTGGGATTATCCAGATACACTATCAATGATAC
AAATTCATAGGAGTATTAATGCATTTCTTTAAACACAACCTTGATTAAGAA
GCAAATATGTTAAGCAGTTTTCTTTTCTGCTGCTAAATTACAGTTAGAC
ACTTCAGTATCTTCTTTACATGTGTATATAAATTAGTAAGAACCTGCA
TCCAAAGCAATGTAGTGTGTGTATGTATCTATATATATTATTCTAACTC
AGCACTTCAGAACGCTTTTGTAGTTACAACAATATTTAGTTTGCCTCAT
CTGTAGAGGTAATAATTTCTATATTACCAAGCTCCAGAGGAATATGATATT
TTACAGGCACAATTTTCTGGCTGTAGTCCCTGGGGCATTATTTGCTTGC
CTCCATGGGATGCTGTTAGAACAAATTGTTAGCCGGCAAGAGAAGAAAGGC
TACCAGGACAGCATTATATAATTGTAGAATGGGAGCCTTTTTCTCTNCC
CTCCACTTTTCATTTAGCATGAAATAAAAAATAATTGGAAATG

>Sequence 635

NAGAAGTGACTACCGCGGTGGCGGCCGAGGTACAGATGATGAAGCTTCC
AGAGCTTATCTGATCTCTTAGACAGAACTCACATAAACACACAAATACAA
GAGGTTATTTCAAGACACACACTTGCAAGTAATCTTTCTATAGAAATGG
CCACAGCATTATAATATTCAAAATATGGAAGATTGACAGTCTGAGGATTT
CTAGGAAAAAAAATCAAAGGACTTGCCAAAAGGATAACTACATAACAGA
TATGACAATCTACAGGACAAAAAGACAACATGTACAGAAATATTGTTTCAT
ACAACAGCGTTAATGGAAAACAGTAAAAACCTTTTAGCAGTGTGCATGT
TAAGTCTTTTAGTAAGATTATCTGTAATGAGGTTTGAAAGTAAATCACTT
AGTAGACAAAGTAAACCACCACAGAACCAGGAATAGCACCCATCACTGCT
GCTTTGTCACTCCAGAAAGCTGAAAGTCAACCGAACAATGAAAAAAGTC
AAAGAAGCATTTCCTTTGAATTCAGTCTAAAAATATGAATGCCTTATA
ATTAATTTCAAAATAAGTATCTTACAAGTGTTTCATGAAACATTGTTTTC
CTAAAAGGCAAATTCAACATTATGAAAATATATATTTTGCCCGGTAGTTA

Table 2

CTGAGAAATGTCAATCCTTTCAACTCTAGAGAATGATGCNATGAAGTCGG
CTTTGAGCCCCACTGCCGCTTGCGCGTGTTNCCATTTGCCTTCTGCATT
CGCACCTTAATGCAGATGTACCTTGCCG

>Sequence 636

TCTTTTCTTATACATATAATTCTTTAGTTTTATATATTTATACTATGCAT
CAGATGTGTGTTATGTCATCTATAATATTAACTTTTTTTCATTTTAATAT
ATTTATGTTAATATCATTATAAGTCGACGATGACTCACGCGGTGGCGGCC
GAGGTAATAAGGGCAAGGTTCACTACTACAAAAAGGAAGTTGTCTAAAA
GCAAGAATTCAATTAACGCTGGGTAAGAAAAGTCAAAACACTAATGAGTT
GTCCATGAAGCCAACTGCTAAGAACGCGCTCAACTATACGCGACATGAAG
ACACTACGCACGAAGCCTTACTTGGCGAGTCTGAATTTCTATTAATAAG
GGCAGAGTGAGGGAGAACAAGAGCTACTCCGTAACATTTTAGTATCCA
GATAGTACCTGCCCC

>Sequence 637

TGTGGGTTGAGCTCACCGCGGTGGCGGCCGAGGTACAGGAAAGGGAAGCA
CAGTTTGGAACAACAGCAGAGATATATGCCTATCGAGAAGAACAGGATTT
TGGAATTGAGATAGTGAAAGTGAAAGCAATTGGAAGACAAAGGTTCAAAG
TCCTTGAGCTAAGAACACAGTCAGATGGAATCCAGCAAGCTAAAGTGCAA
ATTCTTCCCGAATGTGTGTTGCCTTCAACCATGTCTGCAGTTCAATTAGA
ATCCCTCAATAAGTGCCAGATATTTCTTCAAAACCTGTCTCAAGAGAAG
ACCAATGTTTATATAAATGGTGGCAGAAATACCAGAAGAGAAAGTTTCAT
TGTGCAAATCTAACTTCATGGCCTCGCTGGCTGTATTCTTATATGATGC
TGAGACCTTAATGGACAGAATCAAGAAACAGCTACGTGAATGGGATGAAA
ATCTAAAAGATGATTCTCTTCTTCAAATCCAATAGATTTTCTACAGAG
TAGCTGCTTGTCTTCTATTGATGATGTATTGAGAATTCAGCTCCTTT

>Sequence 638

TGTCGATGACTCACCGGGTGGCGGCCGCCCGGGCAGGTACGCGGGAGAAA
ACTAAACCTTCATTTACTGTGAACATCTTCTGACTGTGGCTTCCAGATGC
TAGTTTACAGAACAACACACAGCAAGACCAAGCTTATGCTGAGTTGACG
GAACAATGAGTAAACATAAGGATATTACTGTGACTTTGAAATTCTGAAAT
TGTTCTTTCTTAACTTTTGCATTAATAATCACATTTATTTTATAAAATAAT
GAAA
AAG
AGCCCCCNCTAAAAAAAAAAGGGTTTAAAAAATTTCCCTCTTATTGGG
GGGGGGAGCCGGGTTTTTCTTTTTTGGGGGCCCTCAAAAACGGTTTTT
TTTTTACTCCCCCCCCAAAAAAAAAAAAAAAAAATTTCCCTCCCATTAA
AAAAAAAAAATTTTGTATAAGGGAACGCTCCCGTTAATAAAAAA

>Sequence 639

TGCGATGACTCACCGGGTGGCGGCCGCCCGCACAGGTCCTGGCCCTTA
ATCCCATCAGATTTGTAGATCTTAACCAGGCAGTCACCGAGGCCTCGGAA
GTCCCTTTCAGCTCCAGCTTTACCCACATCAGCTGCTAGACGGGTACCT

>Sequence 640

TGGAGACGATCGAGCTCACCGCGGTGGCGGCCGCCCGGCAGGACGCGGG
GCTGTCTCACCGGTGAGACCTGGAAGCGGGCGAGTCTCGTGTGTGTCGG
ACCTGCAGTCCCTGGCCTTCCGCCACCATGGAGTACCT

>Sequence 641

TGAGATTGAGTCGAGTTCACCGCGGTGGCGGCCGCCCGGGCAGGACGCGG
GTCTTCAGAAACCAGGCTGCTTTCAGGAACATTGCTGTGGATTCCAGCT
TTCAGACAACACATGACTAAGACAGAATGAGACCACTCTAGTTGCCTCAT
GGGAACTCGGGAAAAGACTGCAAAAACAACATTGTTTCTCCCTTTGGAA
TTCTGGAGTTATAAGGCAGAGGTCCCCATCTTCCCGAACTGGCCTATTC
CGCTAGAAGCAAGATGGCTGAACTCAATACTCATGTGAATGTCAAGGAAA
AGATCTATGCAGTTAGATCAGTTGTTCCCAACAAAAGCAATAATGAAATA
GTCCTGGTGCTCCAACAGTTTGATTTTAATGTGGATAAAGCCGTGCAAGC
CTTTGTGGATGGCAGTGCAATTCAAGTTCTAAAAGAATGGAATATGACAG
TTNNNAANAANAANAANAANAANAANAAGGTTCTTGGC

Table 2

>Sequence 642

GCCGAGATGACTCCCCGGGGGCGGCCGGGACTTGGAGAATATTTCCACAA
TAGCCGATGACTTGTCTTGTGACAAGAGAAAGTTCTTTGGCTGTTACC
CTCAATGATAGTGAGGTCCATTGCCGTCTATTAAATGGAGATGATTCCAT
CTTGCTACAGACACTGAAATACCTGGCTAAAAGCCGCTTTCTCTGCG
CTGCTACCAGCCCTGTCACAGGTCCCGGCGCTCTACCTCCCCGCGTACCT
GCCCC

>Sequence 643

GTTGAGTGAGCTCCCGCGGTGGCGGCCGAGGCACGAGAAGCTCACTGGCT
GTGCTAAACCAAATGAATGGAAAGCGCCAAAAGTGATTTTATACCAAGGG
TCCATCCATACAAATAAACAAAATCCTATCCTCTTCTTTCTATATTGTGT
TTCTTACATTTCTTATACAAATAACAGAATGCTTCATTTTATCACTTCA
ATAGGACAAAGTCCTTAAAGAAAGACTGAAAAGAGCTGATAATCAAAATC
CCAAATTTTATGCTTATTTTGGTTTAGGGCTATCAATTTTCTGACATAT
TAACATAGGCAGGAAAACATTCTCAGTAAATTGAGCATTTGAGTCTACAA
ATGTCTTGAAGCACTCTGGCAAGTTACATGTATCCCATGTTGCTTTTGGT
TTCCCATCTCTTCTTGTCTTCAAACCCCCATGCAAGTTTCTTCTTTTTC
GGGCAGGCTGTGAATATTCAACCTCCTTTTGGCTTTTACAAAGGTGTGG
CAGGCAACTGCTTTGGCAATTTTACACCAAGCTCTCGAGTAGCTAGCTG
GTTGCTGCGGTC

>Sequence 644

TGACGACGTGGAGCTCCCGCGGTGGCGGCCGAGGTACACCCTCTGGCCTC
TCCAAGCAAGCAGTGAGGTGTGCATTGTAGAGGTGCACCGGGAAGGGAG
CTTGGTTTCGGACCCCAGGACATCCTGTCCGCAAGCAGCTGCTACTTCTT
GGGCTTCTCTAGAATATTGAGGAATTTCCCCCGTGTCTCTCTGGA
CATCCAGCCCCAGCTGATAGGCTAGGTTCTGTAGGCCTCGAACCTTCTCC
ATCAAAATTAGCCGTGGTGAGACTCCCCAGTTCTTCAACATGTGATGTC
ATCAGTTCTATCTCAGCCATCCATTTGGGTGGAGAACTAGTAATAGGAC
TTTTGAAGGAAGCTGCAAAATTCAGCAACACCTGGTAATTGTTCTGGCAA
AGATCTGGTGAGGCACGGTCAAGTTTTTCAAACCTTAGCAAAGATGCTTC
CAGATCTGTCCCGTCTGTGGGAGACGCCATCTTCAAACCCATGTCACGTC
CCCGGTACCTGCCCGGGCGGCCGCTCGAGCCAGGAACCGTAAAAGG

>Sequence 645

TTAGCGTGAGCTCACCGGGTGGCCGGCCCGCCGGGCAGGTACTTCAGGGA
GGCCTATATATTGGCACCAAGGAATGCCAGGACTGCCACCTGCTGCTCC
AGCGTTAGCCTCACTCGTGTGCTTACTCACTTTGACTGCCTTTTGTCTA
TTTCTGGGAGGTTGGTAGAATGAAAGGGATGCTCCAAGGCAAGCAGATGG
CCTGTCCACCTCCTATATATTGACAGTGCCAATGAGTGATAGAGTCTTGCT
ACAAGAAACAAAGTCATGAGAAATGCCAGGCTTCTGTACACCCAAAGA
CTGCTGGCCCTCCTACTCTATCC

>Sequence 646

TCCACTTCCCTTTCAATTTTGTAGTGATTATTGTTATTAATATCTCTTT
ATATTTTGACATTATTTTTTAAATTATATGTTAGTTATTCACTTCTTATC
TATTATTTCTTAGTAGTGTGACTCACGGGTGGCGGCCGAGGTACCGGCC
AAGCCTGGTCCCCCTTCTTGTGGGCACTGTGTATGGGCGGAGAAAATCCA
GCTTGTCTTGTGCTGATGACGCAAAGGTCAATGTTGCTTCCGGAGCCCAGG
TCGTTGAAGATGCCAGCTGCGATGGCTTCGCTCACCAGATTCTAGGCTTC
CTTCTCCTCCATGTCTGGCTAAACTTATCTTCAAATACAGACCATTTGCT
GCCAAGGAGACCAGAACCCATGGTGACATAAGGCAACTTATCAGTTTGAT
CCATGAGGATAGATGCTGTAGAGGTGAGGTCTCAGTTACATCTACTTCCC
CCTAAACTAGGGCTGCACCAATGTAACCTTGATACCTGAAAAGCATCTG
CTTCAGCATCCGATTGGCTGTCACACTCTGGGAAGACGGCCAGTGGAGA
GGGAGTGGAGCTCCAGGTTGGAAGAAATGAGCTGGGTTGTATGTCTGTG
TCTGCAGCTGTCCAGTACCACAACATTAAATATTAGGAGATATGAAATG
TATTTT

>Sequence 647

Table 2

GGACGAAGTCGAGCTACCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTT
TTTTTTTTTTTTGAGACAGCCTGGGTGACAGAGCGAGAGAGACTCTAAA
AAAAAAAAAAAAAGAAAAAGAACTGTTGAGGGATACACAATATGTCAAAAT
ATTAAGCTTTTTTTAAATTGGGAACACTCAGGATATTGGGATAATTAA
TTAGGCAATGATTCAAAGATGTTGGTTTTAAAATTCAAAACCCCTCCAAA
GGTCAAACTCTGGAATAATTTTTGGTTTTCCCTCCACGTTTTTTT
TTTAACCCCTTAAAAAAAAAAGGGGCTTCACCTTTAAAAAAAAATTTT
TTTTTTTTGTGCAACCCTCTTTTTTTGCGGGGGGTTTTAAAAAAGGGG
GAAAAAAAGGGGGTTCCTCCTCTAAAAAAGAGGGGGG
GGGGAGAGGGAAAAACAAAAAATCTCTCCCTTTTTCTTTTTTTG
TGGGTATAACCACGAGAAAAATATAATTTGTGTTATTGTAATCAACAA
CCCCACCTCACTTATTTATGTTTTTCCACTATCAAAACAACGCTG
TTGTTGTGG

>Sequence 648

GGACGACGATAGACTCGGGTGGCGGCCGCCCGGCAGGTACTTTNTTTTT
TTTTTTTTTTTTTTTTTTTTATTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTGTTCCCGGGGAAACCCCTTTTGGGGTTTTT
CCCCACGGGGACCAAAGGTTAAACCCGGGGACCCCGGGGGGGGGGGG
CCACAACCCCAAGGGTGTAAAACACGGGTGGGGGGGGGAAAAAAGG
GGGCCAAAGGGGCCCTTTTCCCGGGGGAGAAAAAGGGGG
CCCCCCCCCGGAGACCCGGGGGTTAAAAAAGGGGACCCCGG
GGGGGGGGAATCTATATAAGTTTTATCCCCCCCCCGGGGGGG
GGCCCCCCCCCTTTTTTCCCTTTTGGGGGGGAAAAAGACCGCGC
CGGAAAAAATAATTTTGGGGGAAAAAATTTTCAAAAA
AATCCCCCAAGGGGG

>Sequence 649

GAGATTGAGCTCCCGCGGTGGCGGCCGAGGTACAGATAGGAAGAATGTAT
ATTCTGTGGTTGTTGGGTGGAGTGAATGTCTATGAGGCCCTGACTTCTT
TCATTAGGAACACGATTAGAGCTTCTGCTGTGCAGTAGGGGGCATCAA
TAGTTCATTTTCTTTTATTGTCTGCTACCATTCCATTGTATGGATTCAA
CCTAGTCTGTTATTCACTCTCCAGGCTTCCACCAGGCCATCTCTTC
ACTTCGGGGGCACCT

>Sequence 650

GTGAGAATGAGCTCCCGCGGTGGCGGCCGAGGTACTGAGTGGGGAAGAA
GGTAAGAAACAGTTGATTAACACCCTGTGTTCTGGCAGGTGGGATCAGCA
ATATGTAATCCAACTCACCTCCATGTTCAAGGATGTCCCTCTGACTGCAG
AAGAGGTGGAATTTGTGGTGAAAAAGCATTGAGCATGTTCTCCAAGATG
AATCTTCAAGAAATACCACCTTTGGTCTATCAGCTTCTGGTTCTCTCCTC
CAAGGGAAGCAGAAAGAGTGTGGAAGGAATCATAGCCTTCTTCAGTG
CACTAGATAAGCAGCACAATGAGGAACAGAGTGGTGACGAGCTATTGGAT
GTTGTCACTGTGCCATCAGGTGAACTTCGTCATGTGGAAGGCACCATTAT
TCTACACATTGTGTTGCCATCAAATTGGACTATGAACTAGGCAGAGAAC
TCGTGAAACACTTAAAGGTAGGACAGCAAGGAGATTCCAATAATAACTTA
AGTCCCTTCAGCATTGCTCTTCTCTGTCTGTAACAAGAN

>Sequence 651

GAGAATGAGCTCCCGCGGTGGCGGCCGAGGTACTGCGTTATGCAGAGGT
GTCCAGCCCCCTTCTCTTCTGGAAATTAACATTGGCTCCACCTTCCAG
CAATTGCTGGACCAGGTCAACATCTTCGTTTTGAACAGCTTTAATCAGCA
AGTGATTGTCTTCACTGCAGCCCTTCTACCGCTGGAGGACGTGGGTCCC
TCCTGGGGGTGTTATGATCCCTGCTCTCCATGACGGTAAATGCCACCTG
CTACCACTTTAGCCTTTTCTTGAGAAAAATGCAAATTTATCTCCTAGCA
CTTAATCAAAGAAGCTTTGAGTGTAATTTGGGATTCTCTGGCAACAGAGC
AGCAGTATGAAGAAGGAACAATGTTCTCAGTCTTCTGACATTCCACCTGC
TCAACTCAGACGTCTCAATTATCCTTTGGCAGCCGAAAGCCTGGAAGA
CTGCTTGACGCCGAGCAGTTTCTCTGCTGCCTCCGCGTACCAGTGAG

Table 2

GAAGGAAAGAGCATTCTCCTTTAGGGCAGCAATCACAAAN

>Sequence 652

GGAGATGGGTTGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACGCGG
GGAGGGCCAGGTCTCAGGGCTCCTGGAGCTGCAGGCGGCGGAGGGGCTA
CAAATGCTTGACTCAGTGATGCAGAACCTTTCAGAGTTAGCTGGAAGCCA
CAGCCCTGCCTCTTGATGCAGCCTGGATCCAGCCGGTGTGAAGAGGAGAC
CCCTTCCCTCTTGTTGGGGTTTGATCCTGTGTTTCTAGCCT

>Sequence 653

TTTTGCCGCTGACTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACCTGTG
AACTGAGGAATTATAGATAAACCTTAGGTCAAATCATTTTCGCAATTGCAT
TGGTGGTATTGAAAAATGATGAGATTTCTCTGACAGAGAGCTTTGCTTA
GTTTTGTCTTCATAGGTCAAACTGGCAATATTCTCTTGTCTGCAAGA
TAAAGTGTGTTGTGCTTCTATCACCATATGCATGAACATGTAAGAATCAGA
TACAATTTCTGCTTCATCAGTTTCACATGTTCAATGTTGCACTGAAAAAA
TGCATCTACTGTTTATAGCTCCCAAGGAGACCCCAAACTCTTTTTTCTT
TTGAGATGGAGTCTTGCTCTTGTGTTGCCAGGCTGGAGAGCAGTAGCGGA
TCTCAGCTCACTGCAACCCCACTCCTGGGTTCAAGTGATTCTCCTGCC
TCAGCCTCCCCAGTAGCTGGGATTTACAGGTGCCCGCTACCATGCCGGGT
AAATTTGGTTTTAGGAAAAACGGGTTTTCCCTTTTGGCCCCGCGGTTTTT

>Sequence 654

GTGTGGTCCGAGCTACCGGGGGCGGCGAGGTACCTGTTACCACTTTAAAA
GTAAGTTCTCCATCCCATAAAGCCATTTAAATTCATTAGAAAAATGTCCT
TACCTCTTAAATGTGAATTCATCTGTTAAGCTAGGGGTGACACACGTCA
TTGTGCTATATGTATGTGACTTCCCTCCCCCTGCCAGAATACTCCTTGGT
CAATTGTAGGTATTCTTTTTGGTTTAATTTTTGCCAATGTAATTAATAAA
TGGTATGTCATTTTTAAATTTGTATTTCTTTCATTACAAATAAGATTGT
TATGTCAGTATTGTTATTGGCTTTTCGTATTCCTCTTAACGTGAACCGTC
TGTTCAATTGTTTTTACCTGTTTTTCGTTTTAGCAAGTAGTACCTGCCCG

>Sequence 655

GATGAATTGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGAAGTCGG
CCATGGAGTGGAAAGAAGTTCTTCGTCGGCGCCTAGCGACGCCCAACACC
TGTCCAAACAAAAAAGTGAACAAGATTAAAAGATGAAGAAATGGA
TTTATTTACAAAATATTACTCGAATGGAAGGAGGTAGAAAAACACAA
ATGAATCTATAAGACCATTCGCCGTTTTATTATAGGCTGCCTGCTGAA
GATGAAGTCTTACTACAGAAATTAAGAGAGGAATCAAGAGCTGTCTTTCT
ACAAAGAAAAAGCAGAGAACTGTTAGATAATGAAGAATTACAGAACTTAT
GGTTTTTGTCTGGACAAACACCAGACACCACCTATGATTGGAGAGGAAGCG
ATGATCAATTACGAAAACCTTTTTGAAGGGTGGTGAAGAAAGCTGGAGCAAA
AGGCAAGCAATTTTTCACAACAAAAGTCTTTGCTAAATCCTTCATACAG
ATTCATATGGAAAGATTTTTCATCATGCAGTTCTTTAA

>Sequence 656

GGAGGGAGTAGACTCACCGGGTGGCGGCCGCGGGCTGGTACGCCACAA
GGCATTTAATGCCACAGTAACAGGGCTGTTTGACAGTGGCAGAAGAGGA
CGGGACTAAAGTTACTTTGTGCTGAGAGGGGGAAAGAAGCACAAGTTTG
GTCTGTTGCGTAATTGAATTTTAACTCTTATCCACAACAAACACTTT
TTCGTGTCCTGCTGTGTAAAAGACATGAGATATATTACAGATTTTCAAAC
AGGTGAGCATCCTTTTACGAGCTGGGCAGGTGGGGAGTGGCGTGGTTTG
ATGGAGTGAGGAGATTTGGATGAATGAACGCTAAGATGGCCAGACGCACC
TCTTGGATCGTAACTCTGCAGGCTGGGATTCCAGAGCTGCAAAACAACCAC
TGAATTCGATCTGTAAACCTGTTGTCATTTGACGTTTGACAGGAGGCATC
AACATTTACATTGAGATTCAATAGACGCTACTACTACAAAGGAGCTTTAT
TGTTGCAGCTTAAATGGTTGCTGCGGGAACACTGAAGGGTGAAACTGAC
TTTTT

>Sequence 657

GGTTGTGGATGACTCCCCGGGTGGCGGCCGGGTACATTCCAATGAAGAATT
TCTTCATTCTGATCTCCTAGAAGACAGCAAAATACCGAAAAATCTACTCCT

Table 2

TTACTCTTAAGCCTCGAA
>Sequence 658
CCTTCTGCTACGTCTGTATTCTATTCTTGTGAAATGCTCTTTTTTAATA
TACTTGCTGTCGTATTTTACGTGTTTTATTTCAGTTTTGGTTTATACTGT
GGCTATGGTAATTGAAATGGGGGCGATGGAGCTCACGGGTGGCGGCCGAN
GTACCTNGTGGGCNTTAGGTCAATGTTGTTATACACTTTCACAAAAGATT
GTATCTTTGATCTCTTGGCGATCTTCTTCTTGGCCATGGCAGCTGTCACT
TTGCGGGGGTAGCGGTCAATTCCAGCCACCAGAGCATGGCTGTAGGGGCG
ATCTGAGGTGCCATCATCAATGTTCTTCACGATGACAGCTTTGCGTCCGG
AGTAGCGTCCAGCAGGACAAGCACCTTCCCAAG
>Sequence 659
GGAGTGAGCTCACCGGGTGGCGGCCGCCGGGCTGGTGCGCCACAAGGCA
TTTAATGCCCCACAGTAACAGGGCTGTTTGACAGTGGCAGAAGAGGACGGG
ACTAAAGTTACTTTGTGCTGAGAGGGGAAAGAACACAAAGTTTGGTCT
GTTGCGTAATTGAATTTTAACTCTTATCCACAACAACTTTTTTCG
TGTCTGCTGTGTAAAGACATCAGATATATTACAGATTTTCAAACAGGT
GAGCATCCTTTTACGAGCTGGGCAGGTGGGGAGTGGCGTGGTTTTGATGG
AGTGAGGAGATTTGGTTGAATGAACGCTAAGATGGCCAGACGCACCTGTT
CGATCTCAACTCTGCAGCCTGGGATTCCAGAGCTGCAAACAACCACTGAA
TTGATCTGTAAACCTGTTGTCAATTTGACGTTTTTCAGGCAGGCATGAACA
TTTACATTGTAATTCAATAGACGCTACTACTACAAAGGAGCTTTATTGTT
CCAGCTTAATATGGTTGCTGCGGCAACACTGAAAGATGAACTGACTTTT
TT
>Sequence 660
GAGTGAGCTCACCGGGTGGCGGCCGCCGGGAGGTACTATGACCTGAAG
AGGCAGAGGCCATCACTGTTGGTCCGGTCTCCACCTGGGGAACTGAGGT
TGCACAGTGTCTCTGTGGTGACGAGCAGGGCTTCATCCAGTGCCTCTGTC
CCCACCGAGGGGACTATGGGAGACATGGAGGGTGTGTGAGCAACAGGTGA
GACTGGAGCCAGCTGAAAACCTGGGAGACCGACCCAGCCAACAAACATGT
CGGTCTCTGTCTTGGCACCTGCAGGAAACAAGCTCCTACTTCCAGAAAAA
GTGCTCCTGGGACTCCAGGATACCAGGCATCTGGGTAAGCTACAATGCTT
AACCACCTAACACAATCAGGAAGCAACAGCCATGCATTGGGAAAGGAAC
TTCAGTGTGTGTGGCTCAGTCTCCAGACCTAACTTTCCTTTTGGTACCT
>Sequence 661
GGCGTGGGATCGAGCTCCCCCGGGTGGCGGCCGAGGTACGCGGGAGAGAC
TTTTTCTCACCATGAATGTCACCCAGAGGTCAAGAGTCGTGGGATGAA
GTTTGCTGAGGAGCAGCTGCTAAAGCATGGATGGACTCAAGGCAAGGCC
T
>Sequence 662
GCGTGAGGTTGAGCTCCCCCGGGTGGCGGCCGCCGGGAGGTACTTTTT
TTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGACAAAACAAACGA
GTTTTTTAATTTATTTAGGGGAAGGAGGGGTGTCTTTGGATATACCAC
AGCGAGG
>Sequence 663
GTAGATGGAGTTGAGCTCACCGCGGTGGCGGCCGAGGTACTTGTGGAAGG
TAGTGACCAGCACAGCCAGCGCCTGCTCCAGAGAACTGCACATCA
>Sequence 664
TATGCTACGGGGGCGGCGCCGGCAGGTACGCGGGGGCGGTATCTGTATCG
GGCCTTACTGGCTTCAAGAGCCGAATTCCTTCCAAGCACCCACCAGGGG
GACCCCAATTAAGGGTTTGGGACCCACTATTTTTTAATAACGCCAGCACC
TAAAAATGCCCTGGGAAGATGGTCGTGATCCTTGGAGCCTCAAATATACTT
TGGATAATGTTTGCAGCTTCTCAAGCTTTTAAAAATCGAGACCACCCAGA
ATCTAGATATCTTGCTCAGATTGGTGACTCCGTCTCATTGACTTGCAGCA
CCACAGGCTGTGAGTCCCCATTTTCTCTTGGAGAACCCAGATAGATAGT
CCACTTGATGGGAAGGTGACGAATGAGGGGACCACATCTACGCTGACAAAT

Table 2

GATCCTGTAGTTTTGGGGACGAACACTCTTAACCTGTGCACACAACTT
GTGATCTAGGAAATTTGAAAAGAATTCCAGGGGAGATCTACTTTTTCT
AAAGATCAAAGATTATTTGAGTGCCCTT
>Sequence 665
GGATAGATTGAGCTCCCGCGGTGGCGGCCGAGGCTAACAAGGAAAGCCCC
TGGAGCTCCTGTAATAAGAATGTGGTTGGAAGATGCAAACTGTGGATGAT
CATCACCTCCATTTTCTAGGTGTCATTACAGTGATCATATAGGCTTAT
GTCTTGCTGCAGTAACTTATGTTGATGAAGATGAAAATGAAATACTTGAA
TTATCATCAAACAAAACATTCTTCATCATGCTGAAGATTCCAGAGGAGTG
TGTTGCTGAAGAGGAATTGCCTCACCTGCTACCGAAAGGCTCACAGATG
TGTACCT
>Sequence 666
GATGACTCACGGGTGGCGGCCGCCGGGCAGGTTTAATCTCAGGTCTCCC
TATACACTTCTCAGCCTCAGCACCTAACCTCACACAACACTCCAGTATT
GGATGCAGTCAATCTGTATAACATTTTTTGAATGTCCAATGTGCAAAGC
ACGATGTTGGAAATTATACAGAGGTGAATAAGACAAAACTCTTGCTCTC
AAAGATG
>Sequence 667
TACGAGATTGAGCTGAGTTGGCGGCCGCCGAGGTAAGTGGAGAGTCGGCTT
TGACCATGGCCTCAGCTCAGCTCCAGGTTTGGAGCGGAATAAAACAGGAG
CTAGCAAGATGTCTCATCTGAGCTTCCCAGTGCCCACTTATCTGAGGCC
TGGGGCTGAAGCCAGCGCTGACGGAT
>Sequence 668
TGAGGACTCACGGGTGGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTT
TTTTCTGGTCGAAAATTTTTGTGGAATTTTAAAGAAAANGAAAGGCAA
AGTAGCACTCAGATGGCCTTTTTTGTAAAGTGAAGTCAACCTAATACTC
TGGTGCTTACTTTGCAAATCTTTCCATAAGTCAAGTATTAGTGTTAACA
ATACACTTAAGAAGTAAGGATAAACCCATCAAGGTCCACAGCTAAATAAC
CAGCAGATTCCCAGAACTTTATGTATTTGGGAAAAGTAAATATACAAC
AGACATATCCCTGCCCTGATTAAGAGGGTAGATAAAAAACAAACATAAAA
CAATTTTACTTGAGATAGTAATAAGTTATTTGAAAAAATACAACAGAAT
ATAGGGAGAGAGAGCAACTACAGAAAGAAGACAGAAAGGGTTCTGCTTTG
AATAGTAAGGCTTGGGAATAGCTGAATTGTAAACAAATCTGTCAGTCCA
AAAACGAAGATATTTCAATCACCGCTGACTACTGAATGGGAAAC
>Sequence 669
GGAGGACTGAGCTCCACCGCGGTGGCGGCCGAGGTACAGAGTAGGATCAA
TAAAATCTGTGTGTACAGCGGCAGACTGAAGGACGGGTGCCTGTTTTCA
GCCATGAGGTAGTCCCTGACCATCTGAGAACCAAGCCTGACCCTGAAGTG
GAAGAACAGGAGAAGCAACTGACGACAGATGTGCCCGCATTTGGTGCAGA
TGCAGCCCAGGTTGGACTGAGTCACTGCCTTGCTGCCCCATCCCCATCCC
ATCATGAGAAGCTAGGCATTACCATTCCTGTCTAGTAGGGATACATAGTT
GGTTGCGCCTAAGTTGCTTCTGGCAGAACCCAAAGGAATAAATTTCTCCAT
ATCGTTTCTAGTTACCCTAATCTCTGCACAAATTTGTGTGTACAGAAG
CAGATCCAGAGCTTGAATAAAATGTGTTCAAACCTTCTGGAGAAAATCAG
CANAGAGGAGCGAGAATAGCAGAGTGGGAGTATGATGCGACTGGTGGCTA
AACAGAGAAGAGAGGGATTTACGATCACTGGAATGGATGGGTG
>Sequence 670
TTATGACTCACGGGTGGCGGCCGCCGGGCAGGACATTCTTTTTTTTTT
TTTAACTTTTAGGGTCTTGGCCTATTGCATACTAAAGGGCAAAAGGCTT
AGAGATATCAAAGGGGCTAATTTTTATTGACAGACCATGGCGATGTAAA
ATTAGCTGACTTTGGTGTGGCTGCAAAAATAACAGCTACCATTGCAAAAC
GAAAATCTTTCATTGGCACCCCCTTACTGGATGGCCCCAGAAGTTGCAGCA
GTAGAGAAGAATGGTGGCTACAACCAACTCTGTGATATCTGGGCAGTAGG
AATAACAGCAATTGAACTTGAGAACTTCAGCCACCTATGTTTGGATCTC
CACCCAATGAGGGCTCTCTTCTTAATGTCAAAAAGTAATTTTCAGCCTCC
AAAACATAAGGACAAAACAAAATGGGTCAACAACATTCCATAATTTTGT

Table 2

CAAAATAAGCACTAATCAAAAAAAAAAAAAAAAAAAAAAGTACCTCGGCCG
CTTAGAACTGANTGGATTCCCCGGCTGCAGGATTGATATCAGCT
>Sequence 671
GTCGATGTTGAGCTACCGCGGTGGCGGCCGAGGTACGCGGGGTCTTCTCA
TGCTCCGTGATGCATGAGGCTCTGCACAACCACTACACGCAGAAGAGCCT
CTCCCTGTCTCCGGGTAAATGAGTGCGA
>Sequence 672
GATGACGATCGAGCTCACCGCGGTGGCGGCCGAGGTACTCTTCTGCACTG
TTCTTTCTTTCTAATAAACTTTCTTTTTCGAACCTATACTGTCTTCTGT
AAATTCCTTCTACTACCCTATGACCCGTGAGCCAACCACTTCCGATGCC
AGGGTCTGACACCTCACCTGGCATAATATAAAGTGTTTTTTTTTATAC
CCTTCCACTTGGAAAGACTACAGAGGAATCTTGCACTGCATAGTTCAAAC
TAAAAAGAGAAGAGTTAATTACCTGAAAAGCAAGAGAAAACAAGAAGGGG
TAAATTTGAACCAAGGGAAATCATTTAAGAAGTGCTGGTATTTTCAA
ATTTCTGTCAGTTGTTACATTTGTCTAAGTAAATGTTTAGGAATAAAGG
ATGGAGACATGCTTATTTATTTAACTCCCCNNNNNAAAAAAAAATAAAAA
AAAGTACCTGCCCG
>Sequence 673
TGCGTGTTGGATTGAGCTCCCCGGGTGGCGGCCGTCCTCTTAATACTG
GCCTCAGTTCCGAAAACCAACAAAATAGAACCGCGGTCTATTCCATTAT
TCCTAGCTGCGGTATCCAGGCGGCTCGGGCCTGCTTTGAACACTCTAATT
TTTCAAAGTAAACGCTTCGGGCCCCGCGGGACACTCAGCTCCGCGTACC
T
>Sequence 674
GCGCGTGA CTACCGGGGGCGGCGAGACTGAGCCACACAGTGTCCGGATG
GAAGTCTGCATCTGAGGTGCTCAGTGTCCCGGTCAATTTACACATT
TTAACTTGCAATTAAGAGCTGTTCTTTCTGTGGCCTAGACTCTTTTCAC
TGATCTCAAAAATAAACTGGTTTTTTTCAAAAAAAAAAAAAACAAAAACAAA
AAAAACACAAAAGCTGCATGTCTAAAATTACATGGAGTTAGTGTCTATTCT
TTTTCCCCTTTTGCACTTACACAGCATTTTTAACACCTTTTTTTT
CTAGTTTTTTTGTTCGGTTTTGTTTTCCATCAGGAATTTGAGTTCTCTCT
AACCCAGCTTACTGTGGGACATAGGAAAACCTCAGTAGAAATACCTTTGGT
GATCTTGTGAGTTAAGTCTGATCTTGATCTTAACTCAGTAAGCCACT
ATCTGCAATTTTGTACCTGCCCG
>Sequence 675
GTTGATGTAGAGTTGAGCTACCGCGGTGGCGGCCGAGGTACGCGGGGCT
GTAGTGGCTTCGTCTTCGGTTTTTCTCTTCTTCCTTCGCTAACGCCTCCCGC
TCTCGTCAGCCTCCCGC
>Sequence 676
TTTTTGTTTGTATCGAGCTACCGCGGTGGCGGCCGAGAGCACAGAT
GACCACGCCATCGTCCAGTATGAGTGGGCACTGCTGCAGGGGGACCCGTC
AGTGGACATGAAGGTAACGCATGTTGTCACTGC
>Sequence 677
TGAGTGAGCTACCGGGTGGCGGCCGCGGCCGAGACGCGGGAAGGATT
CTGTAGTATGTAGCGTGTCTTAGGTAAAGTCTCTTTTGTCTACTGAAA
GGGAAATGGTCTCTAAACACTGGTCACTGTAGCAGGTAAACACTACTCTA
ACGTGGAGAAATGAGCTTCACTGCTGAGGTAGTGGTTGCCCTAAAGCTGTT
TTTTATGCTGTAAAAACCAAAATGGGTTTGGTTCCCTGATAGGTTTAAAT
TAAATTTGCCCTTATAGTTTTCTTTTCCCTCGGGCCAGATACCCCGGGA
GGTTTTCCCTTTTTTCCGGGTTTTAAAAAGGGTTTTTTTAAACGGGGG
CCCCGGTCCCACTTTTTTTTGGATTTTCGGCGGGGGCGTTTTAAAAA
TAGGGGATCCCCCCCCCGGAGGAGATTTGATTTAATAAATTTTTTCCCC
CCCCCTTCGCTTAGGGAGGGGGGGGGGGCCCCCCCCCTTTTTTTTTTTT
TTAGAAGAATAACCCCGCCCCCTCAATATTATCCGGGGAATTTTTTT
TTC
>Sequence 678

Table 2

GAGAGTGAGTGAGCTCCCCGCGGTGGCGGCCGAGGTAAGTGTGGCAGACG
TCGATGATCGAGTTCAAGGCTGTCTCCAGCTCGGCCAACATGA
>Sequence 679
TGAGTAGTCGAGCTCACCGGGTGGCGGCCGCGGCGGAGGTAAGTGTGGTGT
GTGATCGGAACGTGTCGATCCCCTCTTCTCATCACTGCTGCTCCAACTGG
ATTTATTACTCCGGGAATGGTCTGAGGGGGAACCAATGTGTTTAGCGT
GCCTGCCCACTGCGCTGAGCACAATATCCTGCAATCTGACCTGCCCC
TCCTGCACAGGAAACACCTTCCCCTCCCAATTGATGGTTCAAACACTGC
CACCGCTGACTGCCCTGCATCTGTGGGTCTGTAGAACAGAAAGGCAGAAC
AACTTATTTTATAGGATTTAACGACAACCGGTTGAAAAAACGGTAGGGT
GTCATGCTCACAGAGAATAAGATTTGTAGAAAAGGTGCTGAAGTCCAA
GGAAGGCATTCTTGTGCGGTGTCTGGAACCGTGTATCCTTACTACATCA
CTGAACGACACCAAGCACCCCATGCACTTCTGGGGCCAACCTTGGCCCCCT
GGAGAAAGACACCTGAATTTGGCATGCAGTCTACTTCCN
>Sequence 680
TGAGATGTGATTGAGCTCCCCGCGGTGGCGGCCGCGGTACAAGGGGAGGTA
AGATGGGAGCTCCACTCCTTGGACCACCAGCTGGTTCTGGACCGTATCCC
CATGAATCTGTTTGAACGTAAAGGAGGAAGTCAAAAAAGTTCTTATTTAGG
GTTTCTTTGAGATGTGGGGCACTTCCATTCCCACCGGCACAGGTAGGC
ACGGGCATACACCGACACTAGTGGGTCTCCGATCCCTCTGATCATGCATG
TCAACCGGGGACGCACTCTGAAATTCCCCTTTGGAGAGGAATTTGTTA
CATTTACAGGATGGATGCCCTCCACGTAAAACTTTGGAATGAGTTCCCTGAT
GGAGGCAATCTTGAACCAATTTAGGCATGTTTCCCTTGGCCGTGTCTAT
TTGCATTCTCTGGAGAAAAGTGATCTGGTAAGACGCTGCGGCTATCCACA
CACATGGAAAAGATGCGCTCGTACCTGCCCC
>Sequence 681
CTCTCCACATGTATTTAATTTATTTATTTATATATTTATATATAATTTT
TACTAAAAATTTTATACTATATTGATCATATATAAAATATGTTTATATAT
ATACTTTTATTCATAAAAAGAAGTGTAGGAAGTCTCGGGTGGCGGCCGA
GGTACCTAATGTAGTAGTAAATTTAAGGCCTGTGAGGAAATTTTAACA
CTTCCAACAGGTGACTATATCAGGAAGGAGAAAACCAAGTGCTTCTGCT
TCACCTTCTGCTGCTTTTGGGACTTTTATGAGCTAGTTAGCTAAGGACA
AGACCTGAACCCATTTTCTACTGGGAGAGGAAAACCAAGGCTTCTC
AGCTTTGGCTTGGCAACTCTGGAGTTCTATGGCTTCCATCAGGGCTCCA
GGACCTGATAAGTGGCCTCAGGCAGGAGGAGATCGGGAGCGGATGGGAG
AGCTAGTCAGGAAGGTGGAATAGGGACCATCCCCAACACGTTGGCGTAT
GATGATTTGAGGAAGTGGACGTAGTTCTGCATGCTGCGGTTGGAGCTTC
GGACTGCTCCAGGCGATCTTTCAGGTCTTGCAACCGGCTTTGGTAGCGGC
GGTCCGATTATAACGGGTTCCGCGCAGATGGTTAAATTC
>Sequence 682
GATGGGATTGAGCTCACCGCGGTGGCGGCCGAGGTAAGTCTCGTTTCAGCT
GGGCTCTTATGGCCAACCGCTCGGCTTGGCCCCGCGGTTTCCGGAGAT
ATGTTGTATTCGGCTGGGTGAGGGTCTCAGGCAGAGTGCGCAGGCTCGA
CGGCTTATACTTTGGGAACGACA
>Sequence 683
GACAGTGACAACCGCGGTGGCGGCCGCGGCGGAGGTACGCGGGATGGCA
CATGCAGCGCAAGTAGGTCTACAAGACGCTACTTCCCTATCATAGAAGA
GCTTATCACCTTTTCATGATCAGCCTCATAATCATTTTCTTATCTGCT
TCCTAGTCTGTATGCCCTTTTCTAACACTCACAACAAAATACTAAT
ACTAACATCTCAGACGCTCAGGAAATAGAAACCGTCTGAACTATTCTTC
CGGCATTATTTAGTCTAAAGGGCCTCCCATCCCTACCCATCTTTTAAA
AAACAAAAGGGGAAAAGATCCCCTTCTTTCAAAAAAATGTGGCC
CCAAAGTTTTTGGCCCCCTCGGGGCCCTCGGGCTTTTATAAAAAAGGG
GGACCCCGCGGTGTGGAGAGAATATTATAAAAGTTTTTTTTTCCCCCCC
CCCCCGGGGGGGGGCGCCCCCCCCCAATTTTTTTTTTTTTTTATGGGG
GAAAAAACCCCGCCGAAAAAAGAAATATTTTTTG

Table 2

>Sequence 684
GCGTGACTACCGGGGGCGGGGACCCCATGCAATATATGGCTCTACAA
TCCTCAGCATGTTAATCGAAGCCTTGTTGAGCTTCACAAAGGTTCCATTG
AAGATTTGACGAAGGCGAAGAAGCTGCAACACCTTTCGAACCTTTGGGCT
CACTCCATTGATACCTCTGATTCTGATGACAAACGCCAATTGCGTTCTG
CAGGTACGAGGACATTTTGCCCCGCGGCTTGTTGGGGTCTCCTTTACCCA
TGTTGACAGATCCGCGTCCACCCGAGGGTATTGGAGGGTATTCTTGCCTG
GTGCGAGCTTTTCCTCAGAGTCCCGCAGA

>Sequence 685
GAAGTGACAGGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTT
TTTTTTGAGATGGAGTTTCGCTCTTGTTGCCAGGCTGGAGTGCAATAGA
GCGATCCAGCTCACTACAACCTCCGCCTCCAGGTTCAAGCAATTCTCC
TGCCTCAGCTTCCTGAGTAGCTGGGATTACAGGCATAAGCAACCATGCC
AGCTAATTTGGATTTTAGTAAGATGGGGTTTTTCCATTTTGGCAGGCGG
GTTTGGACCCCCACCTAAGGGGGGACCCCTCTGGGTCCCAAAAAGGG
GGGTAAATAAGGGGGGGGATTCAATCCCCCGGTAAAAAAGGAACC
CCCTCCCGGGGTGGTAAATTTTAAATATGTTTTCCCTCCCCCGGG
GGGGGGGCGCCCCCCCCCTTATTTTTTTGGGGAGGGGCCCTCCCC
CCTTAAAAAACCATTCTTTGTGGGGTGATTATTAACACCCCAA
ACCCAGCGGGGGG

>Sequence 686
GTACGACGATTGAGCTACCGCGGTGGCGGCCGCGGGCAGGTACTTTT
TTTTTTTTTTTTTTTTTGGTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTAAACAGGAATCTTCAGACTTTATT
AAAAAAGGCCCTAAGGGGCCTCTTATTAATAAAGGTATAAAAACCCATA
AATTCGGGGCCCTGGGCTGGGCAGGGTTGATATCCCTAAAGGGGAGGA
AGGGGGGGGATGGGGGGTGAACCGGGGACTGGGGAAGAGGACCAGGGGGC
ACATTGTTCTCGGGTTTGGGTTCAAAGATGGAGCGGGGGGGATATGGG
GGAAAGGGGGCCACGGGTTCTCACGCAACAACGGGGAAGGCCGCGACA
GTTTTTCCCAAAATTCTGGGGGAAGGGGTCCCT

>Sequence 687
TGTTGATATCGACTCCCGCGGGGACGCGGGGCTTTACATGGCAACAAG
TATGGCGGCTGCTAGTGGTAGATTTGAAAGTGCGAAGAGTATCGAAGAGC
GGAAAGAACAGACCCGGAATGCCAGGGCCGAGGTGTTGCGCCAGGCTAAA
GCCAATTTTGAAAAAGAAAGGCGTAAAGAACTTAAGCGACTTCGGGG
TGAGGATACATGGATGCTACCTGATGTGAATGAGAGAATTGAACAGTTCT
CACAGGAACACTTTGTGAAGAAAAAGAAAAAGACAAGCTTCTATTT
AAAGAAGGGAAGATTAATCAGTACCTGCCCGAGT

>Sequence 688
GACGCGTGAGCTACCGCGGTGGCGGCCGAGGTACACTCGCCAGCGGTTT
TGCCACAAGAGTATACGGAACAAAGGAGACAGGCTCATTTATAATCTGAC
GCGGCCACCCTCCTGCTGCGTTTCGTTTCCA

>Sequence 689
TGAGCGTGAGCTACCGCGGTGGCGGCCGCGGGCAGGTACAACTGGG
CACTGGATAGGTAGTTCTTTGGTGGTCAAGGTGGCTCTACCTGTCCTTG
AGCTCTCGTGTCACTCGCTTGGTGATCCGTCCACATCAGGCCAATCAG
GAACAATATACAGATGCTCCACTGATCACAGAGAGAATGTAGTTCTTAG
ATGGAGACGTCATTACTTGCAATGGCAAGATCAGAGAAGCCATCTGCTGGG
GCCACCTAGAATGACACAAGGCAATGTGATTCTCTGAGAGAGCACTGGGC
TGGTGGCAGTGCTAGGTCTAACTTATCCCTCTCAGTTCCTAGTTTATTT
ATGTCCTTTCTTTTGGAGAGGGAGGGCAGGAGATAAGAAAAATCAACACA
GAGCTACAACCTCTTTTCTGGTCATAAACTATACACACGTCTACTGCA
CAAAATTAGGAATACCAGAAGAGCCAAAGTGGTGCAGTCACCACAATT
CTCACAGTGATCACCATAACACAGGACC

>Sequence 690
TGTTGACTGTGACTCCACCGCGGTGGCGGCCGAGTTTGATTTCTTGCAGT

Table 2

CCTGAGCGATGGAGCCCCGGGGTGCCTGGTTATTGTCCGCTTTCTCTCTC
AGATGCTTGGCTTGTGTTTTCAAGAGAACCTTTTCGATATTCATTGCTCC
ATCGATTGGATCCAGTCCTTGTTTCAGAAAATTGT
>Sequence 691
GGAGACGGAGCTCACCGCGGTGGCGGCCGAGGTACTACAGGAAGAACTA
GAGGAAACGGGAATTCATCCATGTCCTGTGTATCTGCTGGCAACAGGTC
AGAACGGCCAGTATGTTATCCCTGCAGGCTGCCTAGGGTGTCTCCTCA
AACAGATCACCTGAGCCTCCTGCATCTATGAAGTTATGACACAGCAACCA
GTTACTCAGAGTCTGATGAGAAAAACAGATTTTAGGTTTGGGAAATGGGA
TTACTGTAATTTACACATCCAAATGCAAACTGGAGCTCTGATTGAATTCT
ACCCTGGGGAGAACTTGATGCTAACCCACAGGTACCTGCCCG
>Sequence 692
GAGTGAGCTCCACCGCGGTGGCGGCCGAGGTACACCAAATGGTGACATCC
TTTCACCAATATAGATTACTTCATACCACATTGTCAAGGAAAGGACTAGA
AGAATTTTTGATGACCCAAAAAACTGGGGGCAAGAAAAAGTAAATCTG
GAGCAGCATGGACCTGTCAGCAACTAAGGAACAAAAAGTAATGAAGATTTA
CACAACTTTGGTATGTCTTACTGAAAGAAAGAAACATGCTTCTAACCT
AGAGCAGGAGGCCAAGCGGCAGAGATTGCCAATGCCAAGTCCAGAGCGGT
TAGATAAGGTAGTAGATTCCATGGATGCATTAGATAAAGGTTGTCCAGGA
AAGAGAAGATGCCCTAAGGCTTCTCAGACTGGTCAAGAAAGAGCTAGAC
CTGGTGCTTGAAGAAGAGACATTTTGGGAAGAATAATTGGGCACAGGTTT
AAGCAGGGGGGTTATACCTGGGCACCCTAATAAAAGATACAATTGGAAAC
CGATCTTTGCCTTGCTTTATGGGACCCATTTCTTAACTG
>Sequence 693
CTGTGGAGACTAAGTGTGAGAGGCTACCGTCACAATCATTTTGGGGGGGG
CCGACTCCCCAGCTTTTTGATCCCCTTTAAACGCGGGTGTAACCAGGCT
CCCTTTGATGTGAATATCCTCGACCCTCCCCTTGATGACGCGCGGTAA
TCTATATTAGTGCCGTTTTATTACCTTCTCTCCCTAGTTAAACCTAACCC
CGTTTGGGCCCTAGGGTCGTTTAAGGCCTTGGGGCCGCGCGTGATTTAAA
TTTTCTCTCAAAGGCCTGTAATTTACCGTTGTTTTCCACCTGAAACCA
CGGGTGCG
>Sequence 694
TTAGCGTGAAGTCCACCGCGGTGGCGGCCGCGGTACAAAAACAGGGGCTAGAG
CTTCCTACTAGGTCTCTGTTGGGGCTCCCCTTTCCTGAACTTTGCCAAA
GACAACAGGATATTCTTGGGGGTTTTGTTGTTGTTTGTGGCATTTTTT
CTGTGCCTGTTGGTGATTCCAGCACAGACCAGAGTGCCGCGTACCTGCCC
G
>Sequence 695
GAGGACTACCGGGGGGGCGCCGGCGGTCTGTATAATGGAGGCTGACCAGA
GCAGTTTAGGAGATTGTAAAGGGAGGTTTTGTGAAGTTCTAAAAGGTTCT
AGTTTGAAGGTCGGCCTTGATGATTAAACGAAGGTTACCTAAATAGAAT
CTAAGTGGCATTTAAACAGTAAAGTTGTAGAGAATAGTTTGAAAAAAA
AAAAAAAAAAAAAAAAAAGTACCT
>Sequence 696
GGGTCGAGACTCACGGGTGGCGGGCGGCCGAGGTACAGCAGGGTGCTCA
GCAAGAGAGGACTGAGTGGATTTTCCTTAGGGATATTTATGAACCTTAAA
GCAGGAGCTTAAAGGGAATTTGGGCCATATTAACCACTTAGGTCATGATA
AATGATTACATTTTGGACATTTTGGTGTCTTAATGTCAGCAAGGGTTGC
ACGATAAGTTTTGACATGCATGCATGGGAGACATGTAGAAATCTAGTTA
CTTACAAGTTTTGGGGAAGAAGCCTGGACCCAGATGCCAGCTTTAAATA
ACAGGGGAGTCTAATTACTTCTAAATTCCTCACATAGGGAGTTTGCCTC
TGGATGGCCTGCTTGATGGTCACTAGGGTGATCTTTTGCCCTTTTATTC
TAAAGCCTCTTGCTCTGGAAGGGGTTTTTGGGCCTTTAAAAAATTGT
GCCCGGGAATAATGGGGGAAAAATTTTTTGGCCCCCATTTTAAAAAA
AAACCTTTTATTTGTGGGGGAAAAATGGCCCCCCCCACCCCGGGGGGGG
CCCTATTTTTTAAGGGGGGAAAAAACCCTTGGGGGGGAAAAAA

Table 2

AAAAAATTTTTTCTCTCCCCGTAAAAAAAATA

>Sequence 697

TTTAGATGAGTCTCGGGTGGCGGCCCGCCGGCAGGACGCGGAGAGACAGC
GTCAGGCGCTTGATTTCCCTGAGTCCCGGTGCCTCAGCTGCCAGTGCCC
ACGTTTCGTAAGAAGGCAACAAGTTCTTCTCTCTACAGAAGGATTTTGCA
AACAAATTCGGCAAGTTCCAAATGATTCTGATCGCAAATACCTGGAAGATT
GGGCAAGAGAAGAATTTCAGAAGAAACAAACGTGCCACCGAAGAGGATACA
ATCCGGATGATGATTACTCAAGGCAATATGCAGCTCATGGAGTTAGAAAA
AACACTTGCTTTAGCAAAATCTTAACTATAGCATTATTCTGAAGGATTTT
CAAAGTCTCCATGTGTCTTTGCTGCATTTAGGATTAACAATGGACAACCC
CAATGCCCAAGCTTACTAATTAATAAACCTGGC

>Sequence 698

CGTTGATGTTATACCTACCGCGGTGGCGGCCGAGGTACACGGCCCCGCT
CGTAGGGATCGTGTGTTTCTCTGACGACCTACGGTAATGCAGCCGGAGC
TTGTTTTCCGTAGCTGGGGACAATCTTCTGTCTTGTCTGTTTCATGTCTG
GAAGAGAGGGGAGAGTCTTGTCTGTCAACCCAGGATGGAGTGCAGCGGC
GTGATCTCAGCTCATTGCAACCTCCACCTCCTGGGTGCAAGCGATTCTCC
TGCCTCAGCTTCCCAAGTAGCTGGGATTACAGGCGTGCACCACTACATCC
AGAGACTGGGACTACAGGCATGGATTTTCAGGTTTATAACATGGCAGAGT
GAATTCTGGCAACACACTGAGTGATGCTTGTCAATGGCCACTATCAGGAA
TTTAAAACAAGATTGGAATTATGACATCTGGACAAACCACATATGCAAA
ACCTACCTTTTGGTCCATTCTCCAGGGCTTCTTCTGCAGCTTCTGGTTCC
AGTTCTTTTTCGGAGCTGTCAGTGTGTGTTTGGCCTGTCCATTAAGTGA
CATCATATTACTTGGGNCCCCGGG

>Sequence 700

TTTCTCACAACCTCATTTTNTATTAGCAATTTCTTCTTGATGCATCTAGT
TATTTCTATAACTACAATTCTACATTGCAAGTAGTTCTGTATATATTCTG
TCTTCTTCATATTTTTTAGTTNTCNNTTGCTGTTGTGATTACGTGGTGG

>Sequence 701

AGGTACGCGGNGGAGAGAGGAAAAAGAACACAGATCTCGCATGGTTCAGAT
TTTTCTTTTATAGGTCCAGGAGTAAGATATATCATACGAAAAATGAAAAATTA
TAATGGCTTCTTGGATTCCCTGGGAGCCACATTGTACGCCCCACTTATCCC
ACAGCGTCTCATGTCTGCAGCAATAGCAATGAGTTACTTCTTAATCTTAA
TAATGGTCAACTTTTGCCACTACAACTTCAGGGCCCACTTAATTCATGGA
TTCCACCTTTCTCTGGAATTTTACAACAGCAGCAGCAGGCTCAAAATCCA
GGACTCTCCAGTTCTCTTATCAGCTCTAGACCAGTTTGTCTGGACTGCT
CCCAATCAGATAACCTTAACAGGAGAGGCCAGTTTGGCCCAAGGAGCCC
AGGCAGGCCAAGTTGATCCCCTACAGCTTCAAACACCGNCCATAACACAA
CCAGGCCCCAGTCACGTGATGCCCTATGTATTCTCCTTCAAAATGCCTCA
AGAGCAAGGACAGATGTTTCAATACTATCCAGGTTACATGGCCCTACCCT
GGGAACAACCCTAGCAAAACAGTTTCAAGGGCACCTAAACAAAACAGGACAG
CAACAGTTTTTGAGGAGCAGATACCATTCTAGGCTCAAATTGGGATCCATT
CCACAACCTAGCAAGAACCTGCTTTTATTAAGGAGAGGGGCACT

>Sequence 702

TGTGATGACTACCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT
TTTATGAATTATTTATTTTCTTTCTCAGAAAAGGATGCGCCTCCACTTAG
CAAGGCTGGGCAGGATGTGGTTCTGCATCTGCCACAGACGGGGTGGTTC
TAGA

>Sequence 703

GTGAGCTCGGGGGCGGCGCGGGCAGGTCAGACCTGAACGCCCAAACACT
TCCTGCAGATGTTGTCTGTTGAAAACTGTCGTCTTACAGAAGCCAGTTGC
AAGGACCTTGCTGCTGTCTTGGTTGTGAGCAAGAAGCTGACACACCTGTG
CTTTGGCCAAGGAACTCTCATTGTTGGGGATACAGGGGTGAAGTTTCTGTGT
GAGGGCTTGAGTTACCCTGATTGTAACTGCAGACCTTGGTGTTACAGCA
ATGCAGCATAAACCAAGCTTGGCTGTAGATATCTCTCAGAGGCGCTCCAAG
AAGCCTGCAGCCTCAAAACCTGGACTTGAGTATCAACCAGATAGCTCGT

Table 2

GGATTGTGGATTCTCTGTCAGGCATTAGAGAATCCAACTGTAACCTAAA
ACACCTACGGTTGAAGACCTATGAACTAATTTGGAAATCAAGAAGCTGT
TGGAGGAAGTGAAGAAAAAGAATCCCAAGCTGACT
>Sequence 704
TGAGATGCTCCCGCGGTGGCGGTCTGCCAGATCCATGATGTGCAGTTCT
CTGGAGCAGGCGCTGGCTGTGCTGGTCACTACCTTCCACAAGTACACGGG
TCTATTTGGCCGTGACCTTGCTCTGGAGACGATGATATCCCTTCAGCCTG
AGGGAATTGATGTTGATGAACCCGGAGGCATCAGTTGGCTCATAATCACC
CTGCACGTTTATGCTCACCAGCTCCTCATTTGTTTCAAGACAGTGGGGACT
CCCGGCCGAGGATGTACCT
>Sequence 705
GTGACTGGCTCACC CGGTGGCGGCCGAGGTCCGACGCAGCAGGC
>Sequence 1082
ACTTTTTTTTTTTTTTTTTTTTTTGTGCTGGTTAACAATATTTTAATTCA
TTAAAAATAAACTTAAAAATTACATGCTAGTCTACACAAGTTAACTTAC
TTTAGTCACTTAGTGAATTGTGAATTGGCTCCCATAGTGGTCAGGAGAA
TGTATTTGGTGTAGAAACCAATAAATCAAGCTATTATCGCCTTGTGAGT
ACC
>Sequence 1083
CCCTTCGGCCCGCCCGGCAGGTACTGGGAAGTGCACCTGGACGAACAATA
AATATAAATATTTATTAATAAATATATTTTAAAAAATAGGGAAAAA
AAAAATAAAAAAATTTCTTGGAAAAAATAAAAGAGAAATCAAA
GATTGCGGGTTTTTTAATTTTAAACCAATTTATAGTTATTTTAATTATT
ACCTTTAACTTTTTTGTGAAATTTGACTTTTTTTTTTGAATGTAGCCTTTT
TTTTTAGTGTGATTTTTATGTGTTCCAAATTAGTTTTTTTTTATTGAA
TAAAAATTTTTTTTTTGGAAAGTTTACTTCTTTCAAATGTTTTATCCTT
TTTTAAATTTCTAGAAATTTTAAATATTTAATGGTTTTAAAGTATTTT
AAATTTTTTTATAATTTCAAAAAATAAATTTTAAAAATAATATATTGAAT
TTTTATTTTTTAACCGCCATAATGTGCTAAGGGACGATTTTCATTCAATTG
TTGCTTAATTGAGAATATGGGGGTACAATTGGTAGGTTATAAATATTGG
TTATTTTATTGTATTTCAATTTTTCTGTGATAATAGGTTTATATTGTTA
CAATGTTTCAAACCGATTTTAAAGGTTATATGTTTTAAATATGATGACTA
TGGGAGACTATTAAGAGGTAGATACGGTGGAGTAATTGGGTTTGGATTAA
TTAATGTTTTTCGATGTGATTATTTGACGGTTATCTGATTTATAAAATT
GGAAAAACATGTGGTGAAAGCAATATGTTTAATAACGCGATTTTCGTGTTG
AGGAATTGTGCCTTTTTGGGTTTGTG
>Sequence 1084
GGTACACATTTTTCTGAAATGTCCCCGTGATTAAGTTGTGAACAAATGA
ACATGCCACATGTCAACAACTGAACAAACATGGATTGTTAGTGAATAG
AGGTGGAGGGAGGGCTAGAGAGAGGCTAGCTGTGTTGGTCTGCCAATCTC
CTGTGTCCACACTGGCTACAAAAATACAACCACTGGGTAGGTAGGGCTC
ATCTAGAACCAAAATTAGGAATAAGGATTGAGAAGAACTCAGCAAGGG
TGATGAATGAGTTTCAGCTCATTGCTGGAGTTAGCTGAAGAATGAATAGG
ACACAGTGGATGAAGGAACAAGCTATTCGGGGACCTTTTGAAGCCCTCG
GACCTCACATCCCTAATAGCTAAAGAAGGATAAAATGGATGTAAGCCAGT
GCTAATCGTTCCCGCGT
>Sequence 1085
GGTACCACCTAACAAATTGGAGGAAATGAAAAGACGAATCAACAACATTT
TGGAGAAAAAATTTTACTTCTAGAAATTTCACTACTCAAGTGNCTT
AGTTCCTTGGTTTGGTAGATGAAGTGAAATCAAAATTGGATATTTGGAACA
TAAATATGGGAGCAGAGAATCTGTGGAATTATTGCTGGAAGACTGGCAT
AAATTTATTGAAGAAAAAGAATTCCTAGCTCGACTTGATACTTCTTTTCA
AAAATGTGGAGAAATTTATAAGAATTTGGCTGGAGAATGTCAGAAATATTA
ATAACAGTATATGATGGTGAAATCTGATGTTTGTATGTATAGAAAAAT
ATATATAATGTGAAGTCCACTCTACAAAAAGTGCTGGCATGTTGGGCTAC
TTATGTGAAAAACCTTCGCTTACTAAGGGCTTGCTTTGAGGAGAACAAGA

Table 2

AAGAAGAAATTTAAGAGGTACCTGGCCGGGCGGGCGATCTAAAGGG
>Sequence 1086
ACTTTNTTTTTTTTTTTTTTTTTTTTTTGTGAGACAGGGTCTCGCTCTATC
ACCTAAACTGGAGTGCACCTGGTGAATCTCGGCTCACTGCAACCTTCACA
CCCCAGGCTCAAGTGTCAATCCTCCCGCTGAGTAGCTGGAACACACGT
GCGCACCCTAAACCCAGCTGTTAATACACCATTTTTAACCCAAAACAT
TAAGAAAAATATAGGAACAGTAAGTAGATTACATTTTGTAAACAGACAAG
CTTACAAGTTTTCTCAAATATGAAAGTCATACTAACTGGGAGACTGTTA
ACTTCTTGATGGGGTTAATCTCTAATATGAAGCCACAGTCATAGCTAACT
ACAAATTACATATACAATGCCAAAAATATTCAAAAAATAACATTTTTTGCA
CCTTAATGATTACAAATGCTAACCAGCATAAAGACACTGGAAAGTTTCAG
AATCTCCTCATCACATACTTTCAAATATCTTCCCTTTACTTCCATGAAAT
TGAACGCGGGATTCTATGTAAGTGATGACTTGTCAAGGTTCCAGGTGTAT
CTTAACCTAACTAAAGAATGCCCTAAGCTTAGATGGGTTTTGAGCCTATA
CAATTGGTATTGGTTGACCCCTTAACCTTTACCTCTCTTAACATGGAGGAC
GAAGAAAGCTGACCTTGGGCGCAACCACCTAAGGGCGAAATTCAACACAC
TGGGGGGCGGTATTATTGATACCACCTGGGACCAACTTGGGGAACATGGA
>Sequence 1087
ACCCAGAAGGGCAGACTTCAACCCAGAAAACTGTGAATTGTGATGGAG
AGATGGGCTCTAGTATCTGAACAACGAAATTATACTTATAGACTACTTTC
TTTTCACAGAAACAAATGAGCTTTCTTGGCTTTTAAACAAATTATCATTGA
AAACTACAAAATTAAGATCACCCATAATCCC
>Sequence 1088
ACATCCTTTTGCATGCTCAAGAGCCCATTCTTTTCATCATTCGGAAGCAA
CAGCGGCAGTCCCCTGCCAAGTTATCCCACTAGCTGATTGCTATATCAT
TGCTGGAGTGATCTATCAGGCACCAGACTTGGGATCAGTTATAAACTCTA
GAGTGGTAAGTGCTTTCACATTCTTTAAGCACTAAAGAAAACCTTTTAATT
AGCTACCTTGCTTCCAGTAATCAAACTAGAGCTCCTCTGCTTGTGTAAG
TTGCTATAAAAGTATTGACTATTAGAATGTCTTGAACCTTTGGTTACTGTGA
GCCAAGTCGGTGCTCAAAGTATATTTCATAGTCTCAATTATATAGTAATT
TAGGTTCTGAAAAATAGGTTCTGTCTTTGCATATGGAATATTTTGTGAGT
ATTTACTTTGGAAAGTTTGGTTCGACCTTATGATAAAATTAAGAGTTATTTT
TCTTTTACAACCTACTGGCTTGGAAAGGGAATTCAGTCAGCTTTTTGATG
AACGTTTGTAATACTGACGATATGATTCCTTCCAAAGGGGATTTGGTGGC
ACTTTCAAAAAACATTGAAGAGCAAGGTAAGTTATAACATTCCTTACCC
TTCTATAAACAACCTTTTTTGAATCTTTTGAAGAAGATAAACCGTGATCTC
GTATAGTATAAAGGGGAGTGGGAATGATGTCTATAATGGGGGTCACTCTT
CTCAACGGTGAAAAATGGATGAGGATCAACATGATAGATATCTGTCCCTGA
TGATGGTGGATACGATAGATGACGATGGTGGATGCTGGCCGGCG
>Sequence 1089
ACATATCCCTATCTACTATGTAAAGACAAAAAGGCAAATGAAATGATGTA
ATACAATGAACCTCCTCAGAAAAATACTCTGTAAAATCTCAGACTGCCTGT
TTATCATATGCTAGAGTAACTTACATTCCTTTCTTGTAGAGAAAAATG
ATGGTAAATCCATGCATTAATCAAACTAAAAACATGAAAAGGCAAGCC
AACTACAAGAGAAATACAGTTGGCCCTTGAACAACACAGATTTGAACTAC
ATGAGTCCGTGTACC
>Sequence 1090
ACCGTGCAAGAAGCTACCAAACAGCAAATATGGAAATAGTCAGTTTTT
TTTTTTTAAAGCCTCAGTAGAAGAGTGCAGAGTTACACTGTCCTGTTTG
GGGTGCCCCCTCCCCCTTTTCGACCTAAGTGCTGACAAGGCTTGTGAGCT
CTCAGTTCTGCCACTGTCAATTTATATGCTTCCACAATGACATACCAATT
TCTGTTTTTTCATACCCATCACATAAGTGTGGAGCTATGTATACGATCT
TAGTGGCTTATAGTTTTTTTTTTTATAAATTAGAACACTTTTTGTTACAT
ATTAAAAAAT
>Sequence 1091
GGTACCTTTGCAGTTTTCTAAGGGCTCTTAGTGCTTTTAACTAGAAAGGG

Table 2

GTTTTTCGTTTGTGTTGTTGTTTTAAAAAGGGTCCTTAGTGCCTCTTACTC
CCTTCCTGTAAAAATCCTGTGTAAAAATGACAAAAGTGCACAATTGATCATT
GTAAGTTCTAGT
>Sequence 1092
ACGCGGGATCTAAAGTTGGGGTGGGAAGGAAGGAGAAAAAGGGGATTGATT
TTAGTGGAAGAACAAGAATGTTCTGAAATTGATTGTGATGGCTGTATAAT
CCTGTGAATATACTAAAAACATTGAGTTGTGCACTTTACATGAGTGAATTG
TGTTGATGTGAATTTATATCTCAATAAAGCTATTTTTAAAAACGAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAGTCCC
>Sequence 1093
GGTACCAGGTACCTGTATCTTGATCACCAGAGAGCACACCAGCCTGGAC
AGCAGCACCATACGCTACAGCTTCATCTGGGTTTATGCCACGGGATGGTT
CCTTGCCATTGAAGAACTCTTTAACCAGTTGCTGAATCTTTGGAATTCTGA
GTCGAGCCACCAACAAGAACAATTTTCATCAACCCGCGTACATGCTAAGAC
TTCACCAAGTCAAAGCGAACTACTATACTCAATTGATCCAATAACTTGACC
AACGGAACAAGTTACCCTAGGGATAACAGCGCAATCCTATTCTAGAGTCC
C
>Sequence 1094
ACATGCCAAAGACTTCGCCATAACTTTTCAAGTTAATTACACCTGCTACT
GTTTCACTTAGTGGCACTTTGCTTAACCTGTTATACACAGAAGGGGTTGA
GAAGACAAAACACTGTTAACTTCATTATACCTTTGACAAAGTAATATTAT
GTGACATGATGTGTTTTCCCAAAATATTAGAGCTGCAGATTTAGCTGAT
TCAATTTATGGGACAATTTGTTATGTGATCTAACAATTTGGCATATAATC
TAGAAAGCAGCTTTATGATCAAAAATTGATTTTATATATATACATATAAA
TC
>Sequence 1095
GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTACTTCAAAAATAACA
TTTTTATTATATAAAAATGTAAAAATCCAGCAAAACCAGAAATACGAATA
TATTTTTCTGGGCTTTCACATTTGTTGATTTTTATTGCGGATCTTTTTCA
ATACAATTACACCTCATCCCCATTTCCAGTCTGATTATACAAGTGCTA
AGTGGCAGAAAGGTCTGGAATAAATACATCAAAAAGAAGAGGCAAAGCTG
TGAAACTAAGTTGCATGCAACAGGTTCTATGAGGGTGGGGGAAGTGTCTG
AGAAG
>Sequence 1096
ACAACTGATACAAAATCTGAAAGAAAGAACAGTCTTGTAATCTTTACAT
ACTTGTAAGGATTTCTCAAATTTTCACTTACTTTCAAAAATAAGTTCT
TACTGTCTAATATGCTCTCTTTAAATTTATTAAGTATTTTAAAAATACCC
TGGCTCTTTATCTAGTTTCAATCTAAGTATAGAAAAGCATCTCTGTAAAG
GCTGTCTTAAAAAAGAAAAAAGAAAAAAGTACC
>Sequence 1097
ACATCTGCAGACATACTGAGTGTACCGTTGAAGAGAGTGGAGTGGCTTT
TGTAAGAAGTTTCAGGTACATGTCCAGGGGCCCAGCCTCTGGGCCCAGTA
ACTCAGTACTCTTTGTGGCTTCTTCATGGCTTTTTTGTGGGCTGCCA
CGCCCATCTTTATCACCAGAATGAGGAACCTCTGGAAGTTAACTGCACCA
TCAGTGTGATATCCAACCTTTGAACCAGACGTCTGCACCCCTTTTCTCT
GATATACTGAGGACACTCGGTCTCTAGCAATTTCTCAGGTCAATCCC
>Sequence 1098
ACTACCATTCCATACAATGGAATATTACCCGATGAAAAATAAAGTTGAA
CACATGCTACAACATGGATGAACCTTTGCTTATAAGAACATTGAAAAGAAA
ATGCCAAAAGAAAAATGAGTTTGTAGCTCAAATTTTAAAGAGGCCTAGC
CTGCTCAAGATATCTGTTAAAAAAGAAAAAAGTAAATATAAAGAATG
TATCTAAGGTGAAAAATAAAAAACATTTTTAAAGTTTAAATATAAAGAATG
AAATAATTTCAAGGTCAAGTTTATTATACAGAAATTATATTAATGGGTGGG
>Sequence 1099
ACGCGGGGGAGGTCTCCATTCAAGTAGGTGGCCCGGGATGAAGGCCGTGTT
GGGGCTAAACCACACTCTGGAATTCTGTGACGAAATTCCTCGCTGTGTGA

Table 2

ACTTGAGCAAGCCATTACCTTTCTTAAGCCATTTTCTTGATATTTACACA
GAGCCTCACCAGTATTCAACGAGAACATGTAAGTGAAATGCTTCACAAA
ATGCCTGGTAAATAATAGATGCTTAGAAAAATGGTAGAGAGAGAAAAAGAGC
AGTCTCTGCCCTTTAATGTACC

>Sequence 1100

ATAATTAATAAATATGATATAAAAAATAAATGTAAAAAAAAAAAAAATT
TTATAAATAAAAAATCCAAAACATTCAACTTCATTACTTCATTTTCATAAA
TTTTTTTCTTAGTAAATCATTTATTTATAGTAATTAACGAACCCCATNTA
GAAGNGGCCGAATTTGGGGGCCCTTCTNAAAAATAGCCATNGCCTTNCG
AACCGGGCCCGCCAAGTGTGAATGGAATCTGCANAATCGCCCTTCGAGCG
GCCGCCCGGCAGTACTGCAGCACATTACCGCGACTGAGGGTATAACCGTC
AAAACCCACGGGCCCCG

>Sequence 1101

GGTACTTGTGGCTAGGAGCTGAGCTTATCACAACAAACAACAGCATTAC
AGGAATTGTCTTATATGTGGTCAGTTGTAAAGCTGATAAAAAATTATTCTG
TAAATCTTGAAAACCTAAAAAATTTACGCAAGAAAAGACATCACTTGTCT
ACTGTAACATCCAAAGGCTTTGCCAGTATGAGCTCTTTAAGTCCTCTGC
CTTGGATGATACAATCACAGCATCACAACTGCGATCGCTTTGGATATTT
CCTGGAGTCTGTGGATGAGATTCTTCAAATCCCTCCACTCTCTTCAACT
GCAACTCTGAATATTTAAAGTGAATCAGGAGAGCCAGAGGTCCTTTGAA
TCATCTCTACAGAGAACTGAAATTTCTTCTTGTGTTTGGCTGATGGTTGA
GGACTGGTGTCACTGAATGGCTCGAGCCCTGGAAGCAAAATCTTGCTGT
TGAACCTGTTCAAGGAATTTCTGAATGACTTAAATAAGCTGGATGGATTG
GTGATTCTACAAAAAAGACACTGAGGTTGAGACCTTGAAGCATGACACT
GCTTGCAATCCATCGTTCCGTCAAGCGTCTTTTCAAAGTTCGGGGTGATC
TTGATATTGCTGAACAACTGTGGTGCAAAATGAGCAGTAGTGTGAATTCA
TACCAAGACTTGGTGAAGTGGTTCACATTGATCATTCAAATCTACAACGT
GGGGAATTCAAGCCTGGCTTCATAGGGGAAGTACAATTAAGTAAAGCT
CATTCTTAAGCTATTT

>Sequence 1102

GGTACGCGGGATTCCCCCATGTTTTCTTCTAGAAGTTTTACAGTTTTACG
ATCTACATTTTGGTCTATGACCCATTTTGGTTAAATTTTGTGTAAGGTA
TGTATACATGTGGAAGTTCATTTTTTGCATGTAAATATCCAATTGTTT
CAACACCATTTGGTTGAAAAGACGGTATGTTCTCCTTTGAATGCTTCTGCG
CCTCAATTAATAATCAGTTTACTCTATCTGCATAAGTCTACTTCTGGGCTG
TCTACTCTCTTTCATTGATCTGTATGTCTGTCCATTNTCCAATACCACTG
TCTTTATTACTGTAGTTTCATAGTAAACCTTGAAATCATAATTCTATAGT
AAGTCTAAAAAATCACACAGGTTGGAAATGCACAATTAGTATGCTAAAT
CAGAGCAATCTTGTGTTTCAAATGGTTTATGGGAGAAATATTAGCCAGT
GGCTTAACATGCTCATTGATGATAACCTGAGCTTATGTGAAAATATTGTT
TTTAAGCTTTGCCGCTATTTCAAAACCACTGGCTGGGCTTGGTTTGCCAA
AATATGACGACCATTTAGGAAATGGCATTTCATGAATGTCCTTCATCTGAA
TATTTGGAAATTGGCCAACCTGCGGTCTAACTTGGAATTAAGTGTTTAA
TGGAAGAGCAGTAAGCCGGTATTGTGAAAAAAACGCATTTTATTTGGCTA
TGTGATTTAAAAATGATCTTAGATTTTCCATTAAATGATATATGGCTAT
GAAAAATAATTTGATT

>Sequence 1103

GGTACTTTGTTAGCGTCTGCGTGTGTATGGAAAAGTTGACAAAAAATGGCA
TGAAAAGATCATGATTGGATTTCTTTTAAACCTGGCCCTTCTGTAAAAAA
TAGTTTATATATTTTAAATAGTAGGTATGTGTGGCTTCCTTTTTTCTT
AACATTTCCAGCAAAATTTTGCTGCTAAGACTATCACTGTTAAAGTGAAA
ATTACAGGGAAAAATGTGATGAATATACCGTAACTCAAAATGTGATATTT
TCTTAAATCACTCTTTATGCTTTAGGAACTGGTTGGTCTCCACTTTGA
TTATTAGGTAAAGAGCCTGAGTATACGTGGATTTTCATTGTAAATTTAA
CTCCTTGTCTTTTACTTGGGGCACGGGGCCCCTGGAGGGCTTCCCTACTT
TCCCCACTATGTAAACAGGTAATTCTGATTTATGCCTTTAGTTTGACTTA

Table 2

TTTTTACCAAAATATTAGAAGTTATGCTTTAAAATGTTAAATGTGGACTG
 AAATTTTCATCTTTTGTGAGAACTATGAAGGGTATTATATACGTGGC
 CTAAGGCGAGGTGTGGATTTTGTATTCTGAAATTGGTTTGCATCTGGAC
 AAATACTAAATATCCCGTGGCCCTTTTTTTTTTATTTTTAAACCCGGGTA
 TCCTTCCATCCTTTGGCCATTCTAGTAGGCAAAAAATTTGTAAGCCCAC
 TTCATTTTCCAATTACAGACTGAAAAATTTGGCCCGTTTTTAAGAAGTTT
 TAATTTT

>Sequence 1104

CACTATAGGGGCTCGAGCGGCCGACCGGGCAGGTACTTGCAATGGTTTGA
 CATTAAAGAGAGAGACTATACATTCACAGAGGTTGGGAGCTTCTGTCTAGC
 CTGTTGTCCAAAACCTGCTTATAAAATTTAGCAACTAATTATCACTTTTGA
 CAACTATTTTAATTCTAGAAAAATAGGTTTATAAAGATTTTCTTAAAGTGT
 TATCTATCCTTCCAATGACTTATTATAAATTTTAGAATGTATTCTATAG
 GGTGGAAAAATCTCCTTTAGTCAGAATTGAACAGTTTTCATGAAGAACAT
 GTTACACCATGTAGAAACATGGGTACC

>Sequence 1105

GGNACTTTTTTTTTTTTTTATTTTTTTTTTTTTATGGCAATATTTATAT
 TTATTTTTGCAATTCCTTGGATAAAAAACCATTTGAACAATGTTTGGTAAG
 GTGTTATTCTCATAAAAACTTCTTTCAAAATGAAGGTTTTCTATTTTCC
 ACAAAAGTTAAAATTACATGCTGAAACAAAGTTAATGACTTAGGTAACAC
 AATACAATGTCAGAAAACCTGGTATAGTAAGACCAGCTAATGAACACGTT
 TTTTAACTAAACAATTACACAGAACTAGAAAACTTGACTTAGTAGTAAAA
 TATAATAAATCTACAATTTTAAATATAAATTTGGTCCATGGAGACACTAGG
 GCAGTATTTACAAATAGTAACAAGATTATTTCTAACTTTAGGGGGAATAA
 CTGCACTTGTAAAAAATGGATGAAATATTATATGGAGAGAGTGTTTTATTT
 TACCGGCTTCTGTTTTTAAAGTTATATTTTTATGCAAAACCTGATAT
 ATTGGCTACAAATACAGCTTATAAAATTATTACCACTACATAACCAAACA
 TTTTCTGGTGTGTTGGGAAATTCCTTAACCTTCTCATATAATGTGAAATT
 TGTTTTGTTTTAAATTACATTACAGCGAAAAAAAATACCCTCACATTTCCA
 TATTTTGTAGACGATACTTGTAATAATTATAATCCTGTTTTAATTTACCA
 CATCATTTAGTTATATTTACAGTTTTTTGCAAAGAGGGGCACAACATTGG
 TCATGATATTAATACTTGCGGCGGAATCCTATGATTAGAGAGGTTACTT
 GTCAGTGATGTAAAATAACT

>Sequence 1106

CCCTTAGCGTGGTTCGTTTGTGAGGTACAAACCTGCATGGTGTGTTATGCA
 CACAGAGATTTGAGAACCATTGTTCTGAATGCTGCTTCCATTTGACAAAG
 TCGGTGATAATTTTTGAAAAGAGAAGCAAAACATGGCGTTTCTTTTATGT
 TCAGCTTATAATGAAATCTGTTTGTGACTATTAGGACTTTGAATTATT
 TCTTTATTAACCCCTCTGAGTTTTTGGATGTATTATTATAAAGAAAAATG
 CAATCACGATTTTAAACATGTAAAATCAAATTTTGGATAACTTTAGATGA
 CTTCAGTGAAATTTTACGTAGTCTGAGTAATAGAATGTTTGGCACTTA
 GAATAGCATTTGGCACTTAGTAATTTAAAAAATAATTGGCGGAGAATTTA
 ATGGCAGTTTTGGTCACTTGTTATCTAATGACAAATTATAAAGCCTTAAA
 AGGGGTTGGACCACATTTATTTGAACATAGGTTTGCACACATTTAAGAG
 ATACATGTAGCCAAAATGACTTTATACCACCGATGGTTTTTTGGAATTTG
 TAAAAATAATACATTTATATGTGTAAATTGATTTAGAAATACGCCACATG
 TTTTGTTCGCGCTTCACACGACTCGCTTCAAAACGACGGGTCCTGGCCG
 GGCGGCGCGCTTTAAAGGGGTAAATACTATGCACATGGGGAGACGGTTCT
 TGGAGATCCCGGTCTTTGCGTCATACTCGGTGCACAAGTAGGGCGATACG
 GGATTCATAGGGCAAAATGATACTCGTCTCCACGCTCCCCACCTTACCT
 CCTGT

>Sequence 1107

CCCTTTCGAGCGGTTCGTCCGGGCATGTCTGTGAGATGTTACCACTAGTAT
 TTGAAAAAAGAATAAAAAATGTGGCCGGGCGTGGTGACACATGCCTGTAAT
 CTAGCCACTTGGGAGGCCAAGGCAGGAGAATCGCTTGAACCTGGGAGGCG
 GAGGTTGCAGTGAGCCAAGATTGCAGCATTGCACTCCAGCCTGGGCAACA

Table 2

GAGTGAACCTCTGTTTCAGGGTTAAAAAAAAAAAAAAAAAAGTACTTT
TTTTTTTTTTTTTTTTTTGGTCATTAGTTATTAATTTTACACAGTTAA
CACTGAAAAATGAATGATATTTAATCATTGTCACTTACTGAGAAGCAAGA
ACAAATGAGTGAGCCCAAAGGAGTCTACTACCATACCTATTAAGTGTAGGG
AAGGGTTAAGTATTTTTTACATACTTTTCTTCTGTCATTGGAAAAACAC
CCCCCATCTGAAATGGACAGAAGAAAAATTTCCAGGTGTTTTACTCTC
ATCAGAACAGCTTGGGGGCAGTGACCTTCACACTGTAGCTTGCCCCCAT
ACTGCTTGAAGGGCACCAGTTAAGAGCTGGTAAAGGGAGTCTCTTTAAAA
ATACAATTGTGGGAGATCCCACTTCCAAAAGGTATGGACCAATGCTTTTT
TCCAACAGCAATGAATGGTGGGGCTGAAAACCAAACTTTACAGGCCCTGG
CTTAGGCCTGGGGAGGGGAGAACCAGAGCATGATTATTGGGAGTTTGAA
AGAAATTTTGCCTAAACCCGGGCGAAATGA

>Sequence 1108

CCCTTTCGAGCGGTTTCGTTTGGCATGTATAATGAAATGTCTTTAAAAAA
AGTTTGTGTGAATTGTGTATGTAATTCTGACAGTAATTCAAAACACAAAA
TCACACATTTTCCCTAACTTCCCATGTTCTGGATCTGGGGACTGCAATAT
TACAGAAATATGCAAAAATAAGTTTGTAGTCTCAGAGATAAATAATTTTTC
TTATTTCAATGCATCAATGCGCAAAAATTTCAATTCAAAAAAGCCAACCA
CTGCTATATGCAAAATAAATAAACATTTGACAACACTTTTATAATCAAAAC
CCAACATTATACAAAAAATGTGTGGCACGTGCACATACATGTGCATATGT
GTATGCAATGCCATTTTGTAGAAAAAGGTGTCTTGATGAAATGATTTTG
AAAATAGTCACTGACACACATTATATACAAAACCTTTTATATAAAAAATT
AAACTATTTTCAATGAAATTCCATGTTTCACTCTATTCTGAGAATTGCA
AACTGAATCATAAATAGGTCTACTAACGAAATCATGGTTAAGGCAGTATT
TTTTACAAGGGTTTTCTTTTATATCACATATGTCACTAAATACTACTGCA
GTCAAATATACAGATGCAATCTGACATGCCTTATCGTTATTACCTGAACT
TTTTTCACTGTATAAAGGGAGAAATACATTTTTTTACAAAAAAATTTTATT
TATAAAAAACTGGTATCATTTTCCAAAAAAGCATTACTTAAACATTAAA
GGTTAAACGTCATCTTATGATGTAAACG

>Sequence 1109

GGTACATTTTGGGCCTTTAATCCCCTCTAAACAATTTGCTGTAAACGAAA
CTCAAAAACAGAAATACCTATATTTTCTCGCTAAATCCAATTGTTACCTA
TGATGAGTAAAGACACTAGATCTGCAGGTCCTAGTACAATCTATACATAA
AAGGCCCTCAGATTTGAGGCACAAAAAAGGGCAAAAAAGAAAAAA
AAGAAAAAACCCTTCTACACATTTCTTCTTTATCTGCAATATGAGA
AGGAATCCTTTCTAACTCTAATAACATATTAACAAGAAATTAAGAACACGA
TTGTCTGGGAACTCAGATGTTGGCAAAGCTTANAAATAAAAAACAAGGG
CTGGGTGCAGTGGCTCAGGCCTATAATCCCAACACTTTGTGAGGCCGAGG
CAGGAGGATTGCTTAAGCCCAGGAGTTTGGGATCAGACTGGACAACAAG
TGAGACCCCTATCCCTATCTCTCCAAAAATTTTAAAAATAGCTGGGCAC
AGTGGTGTGTGCCTGTAGCCCCAGCTACTTAGGAGGCTAAAATGGGAGGA
TCCCTTGAGTCCAAGAAATTTGAGAAATGGCGTGAGCTATGATCAAACCTCA
ATTCAGCCCGGGTGAACGAAGCCAGGGGTTTTTAAAAAAGGGGGGGGGGG
GAAAAANNAAAAAAGGGGGAGGTTCCCTTGGGGCCCCGGGGGGGGGGGG
GCCCCGGGGTTTTTTCGAAAAAGAGGGGGGGCCGCGGAAAAATTTTTTCC
TCCCCACAGGCGCCC

>Sequence 1110

GGTACTGGGATTACAGGCGTGAGCCACCGCACCCAGCCAAAACCTGAATGC
TTTTAAGAGCACCAAGTCAACTCTTGAAGTGCTTTGCTGCTTAGAAATTT
ATTCCACCAGATACCCTAAATCATCTCTCAAGTTTCAAGTTCCACAGA
TCTCTAGAGCAGGGGCAGAAATGCTCCCACTCTTTGCTAAAGCATAGCA
AAAATCACCTTTGCTGCTCCAGTTCCCAATAAGTTCCTCATCTCTGTTGG
AGACCACCTCAACCTGGACTTCATTGTCCATATCAAGATCGGCATTTTGG
TCAAAGCCATTGAGCAAGTCTCTAGGAAGTTGCAAACTTTCCACATTTT
CCTGTCTTCTCTGCACCCTCCAACTATTTCAACCTCTCCCTGTTACCT
AGTTCCAAAGTTACTCCACATTTNTCAGGTATGTTTACAGCAGCAACCCG

Table 2

CTCTACCGGT
>Sequence 1111
GGTACTTTTTTATGTTTTAATTTTTTGTAGAGAATGGCTCTTGCTATGTT
GCCCAGGCTGGTCTTGAACCTCGGACTCAGGTGAAGTGATCTGGCCACC
TCAGCCTCCCAAAGTGCTAGAAATTACAGGCGTCAGCCACCACTCCAGCC
TGTAGCCTATTTTTATAAATGAAGTTTTATTGGAACATAGCCATGCCTGG
TCATTTACATACGTCTATGGCTTCGTATGCAATATAGCAACAGAATATAT
TAAACATTTACTACCTGGCCCTTTGCAGAAAATGTTTGACAGCTCCTGCT
GTATAAACATAAAATCTGCCAAAAAATGCTGATATTACCCACATGGAGA
AACACTGAACCCCTTTCAGAAATCAGATGCCAATTTAAATATTACTATC
AGAGAAATACACTCTGATTTTTTTTTCTATTCCCTTTCTTTTATTTTCT
TTTTTGAGACAAGGTCTTGCTCCGTTGCCAAGCTGGAATATGATGGTGC
CATCATAGCTCACTATAACCTCCGAATCCTGGGCTCAAGTGATCCTCTTG
CCTCAACCTNCTGAGTAGCTTGGAATATGGGCGTGTGCCGCCGACCCTGG
CTAATTTTGGGATTTTTAAAAAAGCGGGGGTTCCTCCACCGTT
TTGGGTCCAAAAAAGTGTGGTCTTTGGAAAAACCTTCTTTTGTAACCC
CCTTTCCGGTGGGAAATACCTTTGGGGGGCCCCCAACCCCTTTTTTT
>Sequence 1112
CCGCCGCTCGAAAGCCCTATACTTAGCGTTTTTAACCTATATNTCTGTGC
TTNNNNNNCTNNNGGNAAGTGGGGGGAATGAGGAGTGGGGGGGAGTGC
TACGCGCATGTGTGTTCTCAATTCCCCTACGGCCCCGGCAGACCTTGGC
TTGACTGTGGTCTANAGCACAAGAATATGCTAGGCTGCACTCTGCTAATC
AGATGTGTGAATGGTCTGTGGNGTGTATTGAATGGGAAGCTTTTGGCCG
GNGAACCAAAGCTCTCATGGATGATGTGGTGAAAGCCACTTCTAGGGGCT
GATCACCATCATAGGTGGTGGAGACACTGCCA
>Sequence 1113
GGTACTTTTTTCTTTTTTCTTTTTTTTTTTTTGAGACAGAGTCTCTCTC
TGCACTCAGGCTGGAGTGGCATGATCTCAGCTCACTGCAACCTC
CACCTCCTGGGTCAAGCAATTCTCCTGCCTCAGCCTCCTGAGTAGCTGG
GATTACAGGCAGGCACCAACACACCCGGCTAATTTTGTATTTTAGTAGA
AACGGGGTTTCTCCATGTTGGTCAGTCTGGTTTCGAACTCCAGCGTCAG
GTCATCTGCCTGCCTCGGCCCTCCCAAAGTGCTGGGATTACAGGCGTGAGC
CACCGCGCCAGCCACTTCTGTATTTTTAAAAAAGTGGTAAGATTGAGT
ATTATACTGGGATAGAAGTGAAGTTGGGGGCTTAATTTGATCTATCAGCT
TATTGAAAACAAGGACCTTTTAAGAAATGGTTTTGTTAGGTTGAAAAGT
GAGTTTTAATTCGTCAATTAATTAGCCAGGATGTTGATTTTTTTGGTGA
AATGTACCTGCCCCGGCGCGGCTCGAAAGG
>Sequence 1114
GGTACCACATTGACCAAGGACCTCTAGCTGTGTTTGGTGAGGCAGGTCT
TTGTCAATTTAAGTAATCCTGTGCTAGATGGTGACCAATCTTGAATCAC
GACAAAGCACTGTTGCTGAGATACTGTGATTTATTTTCTTAATGGGCAG
TTTTTTATATATATACGTTCCATTTTCAGACAGGTGGTGCTTTGAGTTG
AATTTGCAAGTTCAGTGAAACATGGATCTCTTTTTTATTTAACTCCCTTT
TCTTCTCCTAAGGTGCTTAATTTCCATGCTTGACATCGT
>Sequence 1115
TGTACAGAAGGGTTTCACCATGTTCAACCACTGGTCTCAAACTCCTGGT
CTCAAGTGATCCATCTGCCTCAGCCTCCCAAAGCACTAGGATTACAGACT
TGAGCCACCGCACCCCTGTCCCATCACTTTATTTTTCAAGAAGGTGGTGA
GGGTGTGTTGGTGCTGNGGTCTCTAGCTGAAGAAAAGGGAAATTTTTCT
ATCTCTGGTAATGTCTTTA
>Sequence 1116
TGTACCATCCCATGGACACAAGTTTCCAGGCAGCAGCCTCCAAGAATTTT
GTTAGAGATGTCCCATCACTTATGGCCCTACACTGTTTACATCTGGACTC
TGGATTGCAAGTGTAAGGAAGAAAGTGAAAATGAAAGAGAAAGTGGAACA
AATATTGGCAACAGAGCCCCAGAGGACAGTTGTCCCTTTTCCAACAAGT
TAAGTGAAAATGCTGTTGCCATGGGAGT

Table 2

>Sequence 1117

AAAAAAAACAAAATATTTTTTAAAGCGTGAAAAAAAAAAAAAAGAGGGGGGG
GAAATCTAAACTTGGGAAAAAAGGGGGCCTTAAAAAAAAAAAAAAAAAAAA
TTTTAAAAACAAAAAAAAAAAGAGCGCCTTTTTAAAAAAAAAAAAAAAAAAAA
GCCCCCGGGGGCGCGCCAAAAAACCCCTTTTTTAAAAAGGGTTTAAAAA
AACACCCCTCCCAAAATTTAAAAAGGGGGCCCGGAAAAAAAAGGA
AAAGGGGTGGCAAAAAAAAAAATCCCCCCCCCAATTAAAAAACACAAA
TTGGGGGAAAAAAAACCGGGTTAAAAAAAAGGGGGAANTTC
CAAAAGTAAAGAGGGGAAAAAAAAGGGTGTTTTGGGGAAAAAAA
AAGAGCCCCCAAAAAATTTGTAAAAACAAAAAGGGCAACTTCAAGGGG
GTGAAAAAAAAAAAAAAAAAATCCCCCCCCAAAAAAAAGGGGGG
GGGGGGGAAATTTTTTCTTATTTGGAAGAAAGAAAAAAAAGGGGGG
GGGCCCCCGGGAGTTTTTTTAAAAAAAAAAAAAAAAAATTGGGGGGGGGGG
GGGTTTTTTTTTTTTTCCCCCCCCCCCCCCCCCAACAATAAAAGAGAG

>Sequence 1118

TGTACTTTTTTTTTTTTTTTTTTTTTTAAAGAAAAAGTTGGCCCAG
CCCCAGGGAATAAATTTGACTGCTCTAAACAACCACAGACCAAGGGCCA
AATCTGGCCCTCTGACTGTATAAATTAAGTTTTACTGGAATAAAACAGG
TCCATTGATTTTCCATTGTCTACATACGCTTTTAGGCTACGATGGCACC
ACTGTGTCACTACAAAAGAGGTTATCTAGACAAAAAGCCTAAATATTAC
CGTTTGCCTCTTTATGGAAAAAGTTTGCCATTCCCTAGTCTAAGGTTTAT
ATTCTGAGCTTATCATGTTATCCTACCCCCCCCCCGCT

>Sequence 1119

ACAATATGGAAAGGTAAGATCCATACCCAAAGTTAGGTAAGTGTGAGT
TGTCCCATGTAAATAGTTTAAACACTTGTAAGAAGTATTAGAAGAGATCCT
TAGGGAATGATGCAAGTGGCATTGAGCTATTCATTTAGAGAAAGTTTA
GAAACATGCAGTCTANNAGGAAGAGATAGAGGCAATAGGAAAAATATAC
TTAAGATTAACAGCTGTTTATCCCCGACTTGCTTAACCTCNGATGTNGTG
TCAGAAAAGCAACAGTATGGGCTAGAACAAAGTGGGAATGGCGTTTAAAG
AAGTAGGAAAAGGGCAAGTCTAAAGAAATTTGAACTTNAGATACTAACT
TGTGTTGCNAGTGATTAATCATAAGCTTATTCTTCATGAAAAGTATATAT
TTCTTTCACACTACNCTAAGACAGTATTATACATTTTGCTTTTTTATCTG
AGGGATTGAAAAACAAAATTATTTTTTGCCTTTTTAANTCCTTAGA
ANTGAACTAGAACTCTATTTAGGGAGTTAGCAAAAAAAAAAAAAAAT
ACCTTGGTCGGCACCAACCTTGGGGAGAATTACTTCCACTTGGCTGGCG
GGCTTTTTTTGATGCAACCCTGGGTCCCAACCATTTGGGTGGGAAGCAAA
GGGGTCGGTTAAACTTGGCTTTCTTGGGCTGGAAAAAAAATTTTTT
TCCCCGTTCCCGGCCTTTATTTTTTATTTTTTCCCCACCAAAAAAAT
TTTTTCCTTTTAAACCCCCCCCCCGGTGGGAAACAGAGGGGGT

>Sequence 1120

GGTACACACATCTTTTGGAGATCCTACCTTCAGTTCTTTTGGAGTATATAG
CCAGAAGTGATTACTAAATCTTACGATATTTCTATTTTAAATTTATTG
AGGAACCACTGTAGTTTTTCATAGCAGCTGCACCATTTTACGTTCTCACC
AAGAGTGCACAAGGGTTCCGAGGTCCCACATCCTCCCCAACACTTGTTA
TTTTCTGCTTTTTTATGATTGCAGCCATCATAGTGGGTGTGAGGTGACAT
TTCATTGTGGTTTTGATTTGCATTTCCCTAATGAGGAGTGATGCTGAGCA
TCTTTTCATATGCTTACTGGTCATTTGTATGTTGCTTTGGAAAAATGTC
TATTCAGTCCTTTGACTATTTTAAAAATTGGGTATTAGAGTTATCGTT
GGTGGTGAAGTTAGGAGTTTCTTTCTATATTCTGGATATTAATCCCTTA
TTAGATATATGATTTGCAAAATCTTCTCTTATTCCTAAGGTTACTTTTT
CCTTTTGGTGAAATGGGGTCTCTGATGGATAGAAGTTTTTAGGTTTGAAAT
AAGCTAAATTATCTGGTTTACTTTTGGGGGCTGGGCTTTTGGGGCCATA
TTCAAGAAATCCTTGCCACAACCACGTAATAAGGTACCTGCCCGGCCGGC
GCTTCAAAGGCGAATTCAAGACACTTGGGGCCCGTTTTTTTGAATCCAGC
TCGGTCCAAACATGGCGATATAATGGGATAACATGGTACAGTGTTAAATC

>Sequence 1121

Table 2

CCCTTAGCGTGGTCGCTTTTCGAGGTACTTNTTTTTTTTTTTTTTTT
TATTTAGTAGAGACGGGGTTTCACCGTGGTAGCCAGGATGGTCTTGATCT
CCTGACCTCGTGATCCACCCACCTTGGCCTCCCAAAGTGCTGGGATTACA
GGCGTGAGCCACCGTGCCGGGCTGAAAAATAACCCTTTAGATATCTACAG
CTTTAAACTGTGTGCAGTCATGAAAAGCAGACATTAGAAGTCATTGGCAT
TTAATAAATTGCAGTAAATTATACAGTAAATACATTACAATCATTAAATA
ATAGGCTTTAATGAGAAGAATTTAATAAATAATCATTAAAAAGACAGCAG
AATTTTATCTGTCTCAATATGTTGCTGCTCTTCTTATCAAATACTATA
ATAAACTATATGACTATTATATAGATTTTCAGGAGCTAAAAAAGCCTTA
TATTTTCAAATTAAGAACAATATTAATTTTGCAAAATACAATGAGCATT
ACTGAAGTATAAAGGTAATATTTTGGATTAAAAATATATGGTCATTAGAT
ACCGGCCCTTAAAGAATAGAAATCTTAATGATTTCTTTCTGGCTACAGTG
AGCTTAAAAATACCACCCCAAAATTTAATAAATATGTAGCACTTCAAGAA
ATTTTTTAACAACCTTCATAATGTGAAATTGAGCCATTTATTTAGAACTTT
GAATTTGAAATAACTGCTGGCATTCTTTTGAAAGGGACCTTTAGGGAGT
TCCTTATCCGACACGGAT

>Sequence 1122

CCCTTCGGTTTTCCGGGCAGGTACGCGGGGGCGGCTCGTTCAAGATGGCG
GAGCTCGACCAGTTGCCTGACGAGAGCTCTTCAGCAAAAGCCCTTGTCAG
TTTAAAGAAGGAAGCTTATCTAACACGTGGAATGAAAAGTACC

>Sequence 1123

ACCTTTTATCCCTCAAAGGACCCTTCTTGGGTTTTGAATGGAAGCCTTTA
TTCCGGTTAAGATGTTTTCTTCTATTTTGCCACTTCCATCTTTTTTGTG
GCCCTCGATCCTATTTTCCCTGACTCCATGCTTGGTTGGCCCTTATAAA
ACTTGTGCCCCAAAGATTGTGGATTAGACTTTCCGAGGACTTACCTGTCC
TAGGGGAGTAGGCAAGCACTTCCACTAGGGAGGGGGTGGGGGAAAGGAAT
GACACATGACATACATGGCATACACATTAAGCAGTTGATCATATGTCTGA
CTGGGTTCAGTTTCTTGGGAATGTTGGTCCCCTTGTTTCAGGCTTGCTA
TTTTAACTAAAAATTTTCAGTCTATTGTTTTTAGTAACTTCATTTATAGT
CCTCCATAACAAGTTAGAAGGATGTATCTGCTACCATTTATTCCTATAAT
TTTTAAAGTTGGGGCTTGACATTATACTCATTTAGTGAGAGTAGATGCA
AAAAAGTGGAGGGGAGGAGAACTTTTTTCAGACACCTCAGATAAAGTCCG
GAGCCCAAGCTTTATCTTAACCATGTATGGTACCTCGGCCGGAACCC
TAAGGG

>Sequence 1124

CCCTTTCGATCGGCCCGCCGGGCAGGACGCGGGTAGGGCAACTTGATGT
ATGCTTAGGGTTCGCAAAAGTAAACAAAAATACAAGGGAATAAATTAT
TGACAATGAACTGCTTTGGTAGTGATTGTGATTTGTTTTTCTTGATT
AGTAACCAACAGCAGCCACCAAGAAA

>Sequence 1125

GGTACAGAAAAAGACACATTTAGATAAACTGAAGCAGATTAAAGTGACTT
TATAAGACAACATCTTTGTTTTATGTTTAATTTCAAGTATGGTTAAGCA
CTAATTTAATTCAGTGCTTTCTGCTTATTCTGTTCTAGTAACTCTTACA
GAAACAAGTGTAGTCAGTAGCCAACATACATCCATGTCAGCCTATATATG
ACTTACTAGGAGGGCTTAGTTTTTAAAGAGATGAAAAATAAAGAGAAG
GTCTAGTATTTTCTCCACATTCCAACAGATCATTTTATGTGCCCCCTT
TGGGTGAGCACATTCCATGTTGTAGACCATTGATCATAGTAGTCAGAGCA
TGGAGCTCTGGAGTTTCAANAATAATTTTATTATTGCTGGTATGACAAA
AATAATTACCATGAAAAAAAAAAAAAAAAAAGT

>Sequence 1126

ACTTTACTGTTCTTTTAAACCTGGAGAAGCCTCTATGGCTTATTCCTTA
GAAGCAACAATGAAATGATGTATAAAGCATCAAGTCAAAGATACAGAGA
ACTGGACACATCCACTAATTGTTATGACAATCAAAGAAGTCATCTCCGTA
AATACCTAAGGGTTGTCTAAGGCTATAAAGGTCAATTTGAAAGCCAGTTA
GGGATCCACCGTGTTCATAAAAGTGTCTTACACTCATGTTTGGCTTTCA
AGAAGTGATATGCCTACTAAAGCTGTTATTTTGAGACTATCCCGGTACC

Table 2

>Sequence 1127

CCCTTTCGAGCGGCCGTTTCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTT
TTTTGGCCTCCAATTCCATTTTAATTTTGTTCCTTGTGTTGCTTTCCTC
AAATATACAGTCCATCACCTTGGCTCAGTGCATGTCACCAAAAATTCTCC
AGGGATTTCATAGTCTCGGTGGTGTGGCTGGCCCAGGACTATCCATGCAG
GGAGGCCTGCACCTCTGACAGTCGGCTGCAGCTGGGGGTGCCATCTTTT
GTGCTCTGTGGTACTCCTACACACATAAAATTCAGGAAATGACTAGATGAG
CCTGAGTGGCTTTATCATTATTGTGCAAATACAGTTTCTATACCCACAAA
CCCAAATTAAATTATTATAGGGACTAATGGCTGTCAGGTGGGTGTGGGAG
GAAAAAATTCACAAGCTTGTGTACCAATTACCTTTACCATGAATTTTATG
TACCCTTGGCGCTACCACACTTAGGGCTATTTTCTGTCACTGCGGGT
CCGTATCTTAGGGAATCCCACTTGGGTCCCACATCATGGATGACACCTGG
TAATTAAGTGGTCCCTCTCATAAAATAAAATTCGGTTGTACATTCAACAC
AAAATTACGTACCGTACTGCAAAATATTATATTCTTCGGCGTGCCACTCA
GATGATCTTACACACATCTATTGTCTACGCCTTATTGTTTCTTTACAATT
ATACAACTTATTCGGATAACTTCTCTAACTAACTTTACACCCCTGCGTT
AGGGCGCTTATCTATTCTCCATCAATCTCAACCGTTT

>Sequence 1128

CCCTTTCCTTTTGGCGCCCGGGCAGGTACTATCGATTGGGTGGGGGTGA
TCTATTATCATTGAGTAGGGAACCTTACTAGGTTAAATAGAGAGTATATA
GAATGTATTTGGTTATAGATATGTGAAGGAAAAGGCATAATTATATGGTC
ATCCATGCTGGGGAATATTTGTAGGTATGTTTGTGAGAGAAATCGAT
CATATTGGATCAATAGAATTAGACAAATATCTTGAGCATCAAGAGACCTG
GAAACATGGGAATGATAAAGAGAGAAAACTGCAGTTTCGACGTTCTTGA
GGCCACAAGAGAGATGGAGGAATGAGGGTCGTGTATAGGAAAGAGAAATA
AGAAATTGTGTGGGAGAGAAAGATGGTTTATTGTGATGGTCAAAATACCG
AGCATGGGAGAGCCAATGGACAACATTTGAAAAATGAATCAAATTGATAA
AGTACCTTCGGGCCGACCACCCTTAGGGCCAAT

>Sequence 1129

ACAGTGGCGCAATCTTGGCTAGTGTAATTCAGTCTTTTGAATAAAATGGAA
AAAAATAAATTGTATGTTATTTTATACAGAAAAAAGGCCTTAATATCAT
AAGGTTTTTTTATAGCCCTCAAACTGATTTTTTAAATGGAGGTAGGCAAC
TGAGAAAAATAAGCATTTAAATTAGTTTTTCACCCCAAAGCCCCCAAATT
TTGCTTACAAAATTAGGGTACC

>Sequence 1130

ACTTINTTTTTTTTTTTTATTTTTCCTTTTTTATTATTTTTTTTTTTT
TTATTTTTTTTATTTTTTNNNAANNTTTTATTTTTTTTATNNNTATAAA
AAATTATATACNAGGGGGGATAAAAAAATAATAAAGGGGGGGTGGAAA
AAATAAAAAAAGGGGGGCAATATAGCGGATTGGGGAGAGGGAAA
AAAAAAGAGATGGGATTGTAAAAAAGGGGAAAAAAGAAAAATAATT
GGTTTAAACACAAAAAAGAATAAAAAAACGGTTGGGAGGGTTAGGGGG
AAAAAAGTGAGGGGGGAAAAAATGGAGAAAAATGGGGGGGGGGAATA
TAGGGGGAAAAAGGTGGGGAAAAAAGGTGGGGGGGAAAAAAGGCGAAA
AGATTGTACTAGGAGGAAAAAAGTTATTACGGCGAACATATAAACAAA
AAAAATAGGGGGGGGAAAAAAGAGGAAACCGGGGGGGGCAAAA
GAGGGGGGACACTCCCAATATATGGTGGGGGGGAAAAATGGGGGGGAAT
AAAAAAGAAAAAAGTGGGCACATGTGAGAAAAAACATA
CAGGCGGAGGGAAGAGGAGTTAGATAAAGAGGAGGTATATTAAATGTTT
AAAAAAGAGGAGGGGAGAAAGGAGATATAAAAAAGGGTGAGAACCG
AAAAAAGAGGGGAAAAAAGAGGGAGAAAGAGGGGAATAAAT

>Sequence 1131

ACCCAGAGGGAGAGGCTAGCAGTATTTTAAATTGGTTTCTAAATTTTTT
ATAGCTTGATGGTAGATAACACATTTGCTTCATTGAAGTAATCTGAAAA
CCAATCCTCAAAAGACCTCTCAATTAGAATTCTTAAATGACAATGTTTTT

Table 2

TTTATCATATATTTGAGAGATTGATTTAAAGAAAAATAATGCTTGACTAT
CTGAAATAATTTTAAACCCTATCATAAATCTCTGCCTGGTAGAACAGC
TGA CTGTGGAAGGGTAAAAATGCAGAGAACCAGTCATTGGATCTCCCTTCT
CTACTTTGTTACTGAAATCTTGAACCTGTAGAACATTACTTATCACTGTG
TTCCTTTCTAATGGGAAAAATAATAAAACACTTGCAGAGTATTNTTTAA
AAGTTTTTAGCTTTAAAAAACCCTGTGCCTTACACAATGTGTATA
TTGAGTTGATACTGATTATGATAATTAGATGGTATTATACAATCATTAT
TCAGCAAACATTCACTTACTGAGCACCTACTAATGTCCAAGTACCTTCGG
NCGCGACACGCTTAGGG

>Sequence 1132

ACATCACATGGTGAAAGCAGGAGCAAGAGGGATAGAGGTGCCATACACTT
TTAAACAATCCGATCTCACAAGAGCTCACTCACTATTGCAAAGATAACTC
CAAGCCGTGAGTGATTGGCTCCCATGACCTGAACACCTCCACAGGTCC
TACCTTCAGCATTGGGGGTGACAAAGCAACATGAGATTTGGGCAGGGATA
AATATCCAAATTATATCATTTCTGCTCCTGGCCTCTCCCAAATCTCATGTC
TTCTCACATTGCAAAATATAATTATGCCTTCCTAACAGTCCCCAAAAGTC
TTAACTCATTCCGACTNAACTCANAAATTCAAAGTTGGCCAGATGCAGT
GGCTCACACCTATAATCCAGCATTTTGAAGGCCAAGGTGGGTGGATTT
CTTGAGCCCAGGAGTTTGAGACCAGCCTGGGTAATGTGGCAAACTGCAT
CTCCACANNNNNAAAAANNNAAAAAAAAAAAGTACCTTGGGCGCGAACACG
CTAAGGG

>Sequence 1133

GGTACTGAAACTACAGGTGTGAGCCACCATGCCTGGCTTAAACATTTGTT
TTAATTAGCCAGGCTTGGTGGCCACATCTGTAGTCCACCTACTCAGGA
AGCTGAGGTGAGAGGATCACTTGAGCCCAGAAGTTCAAAGGGGCAGTGAT
CACTCCATTGCACTCCAGCCTGNGTAACAGAGTGAGACCCTGTCTCGCCA
AAAAGAAAGAGGTTAAGGAGGAGAAGACTCTAGACCAAAAGAAGTAAGT
ATATTATTGAAAATATTTGATAGCAATCGCAATTATTTGGATAACTATTT
TCACATATGTAAGCAAACCAATAGGGTCTCAAAAGTTTCAGACCAAAATG
ATTATGTTCTCTACTTCAACCTTAAAAAAGTTAAAGAATTCTACAAT
TACAAAAAGAACAGTTATTCTATAGTTACAAAAAGACTTGAAAACTTTCA
CCTGAATGCATCTCTTTGTTACAAAACCATTAAGGAGGTAGGGGGGAAC
TTCATGATTATCAATGCTGCCTGCTTTTTTAACCCAGGAAATCCTTTAC
ACCCCTTCTTGCTCTGGCCAGCAAGAACCTGAGGTGTACCTGCCCCGCCG
CCCGTCA

>Sequence 1134

ACTTNTTTTTTTTTTTTTTTGTTTAGGAGCCTCTGGTTACGTTTTCTTG
TATATTTACTTTCTCATCCTTTCTCTTTCTTACGCTTCCATCTTTGACA
TCCTTATCTATTCTAGTGCCAACCCCTCTCTTTAAAAAGTCNAGTAGTGT
NNAATATAGTTGGCTCNTTTTTATTANNAAAAAATTTAAAGATTGGGAT
ATTTGCTTTACTTTATCATGTTACCGAGGGGCTTTATTTATANTNNGTGT
ATTACANNAATATATTTGTTAACCTACCCTAGCAAATATTTNTATGGGTA
ATAACTTTGCGCTATTTNTAATATAAAATCCCTGGGTTTTTTAAATTTCT
TGAAAATGGCTCCATTTTAAAGTAATAAGGGAGACAGGGGTGAAAATTGG
TNTCCAAGTTTACCTACCTACAACCAAGGAAATAAGGGAAGCTCTAGA
TTCCTTGGTCCTTTTTTTTCAAAAAAGAAAAATTTTTAAAAACCAAGGC
TTATTTGGAGGTATAGGTTTGATTATAAGCCTATATTTTGGACATGGTCC
CTTGGGGCCCGGACCACCGCTTAGGGGGCGAAATCCACACACACTTGGCC
GGCGCGTTACTTAGTGGATTCCCGAGCCTCGGTACCCAAGCCTGGGCGTA
AATAATGGGCAATAAGCTGGTTTCTGGGGAGAAAATGGTTATCCCGCTC
CCAATTCACCAACAACATACCAACCCGGAAGCCTTAAGATGTAAAGCCTC
GGGGTGCCTCAAGGACGAGCCTAACCTCCCATTAATTGTGTTGCGCTTAC
TTGCGCCGTTTCCCAATTGGAACCTTTCTGGCCAACCTTGATATATGGA
AATGCCACGCGCGGGGAAGAGCGGTTGTGCTTTGGGCGCTTTTCCCT
CCTCCCTCACTGACTCCCTTCCCTGGCGTTTGGTGGTGGGAGGGGTAA
AT

Table 2

>Sequence 1135
GGTACAGAGGAAATGGGACTTTGCAATTATATTTTTCTAAGTGGTCTGAA
CTTGGTCTCACTACCCACATCANCCTGGAATGGGTACCAGGCCTCAAAG
GACTGCCCCACGGGCTAAACAGCTGATCCGCTCTCTGAAGCCAGACAGTC
TTATCTGGGAGGTCTTTACAGATGCCACTGTTGAAGGCCCGGAAGCTGA
AGAGAGTGAGCTCCATCCTCAAGTAGTCCTTTATGCTCCTTTGGAACAAG
CTTTGCTGTTTTGGGCCGGCATTTGTGAATTGGGCCTGGAGTGTAAGGTC
TTTANAAAGAAGGGATGGGTCCCTTAGGTAATGAAATAGGTGTTGATGGT
GTTATGGGTGATGATGGAAGTGAAGTGGGTGTATAAAGTCTTCATCCTT
CCCAACTGGGTGGTATCTAAAATCGGCTTGGGCTTCACATTTATAAGGGA
GAAGGTCGGGCCAGGTACCTAAAGGGAAGGAGGGACCTTCTCCTTAA
GGGGGAGGTCCCTGGCCACTGGCAAAACGGGAGGGGGGACAACACCTGGT
GAAATTACCACCCCCCGACGCCAAGTTGTACCGCGGGTCTCCTCGGGT
ACTCTGGCCGGGGTGGTCTGTTTTTAATAGGGCTAAATCTTATCACATTG
CTATGCCGGTCACTATAATGGAATCCGATAATTCGTTACGGAGACCTTGG
CTCAACCATAGGACTAAGATTGTATTCCTGGTGTGCAAAACAGTGATTCCG
CTCTCAAATTCACAAAACATTTTCGAGGCACGGAGCTTAATGAATAGGCN
>Sequence 1136
ACAGATGAAGATGTGTTAAATATCTCAGCAGAGGAGTGATTAGATAAAT
GGAATTATGATATATATGATATACAACTTTTTCTATTTAAAAATATATT
AATGGATCAACTTTAAAATTGTTAGTTGCCAGTGATCTTTTTTGGAAAAAC
AAAAATGGGGCATTTTGTGATTTATTTATTTCCGTCTCTAATTAGTTAC
CTCAGTTTGATTGAAGCCAGTGAAGTTGTGCTTTTCTCTACTTCTACTT
CCTCTCCCCGACCTTTTTTCTGCCAGTGATGGTGTATTTC
>Sequence 1137
ACAACCTTGGCTCACCGCAACCTCCGCTCCCGGGTTGAAGCGATTCTCC
TGCTCAGCTCCCGAGTAGCTGGGATTACAGGTGTGCACCACCACGTCC
TGCTAATTTTTGTGTTTTAGTAGAGATGGAGTTCACCATGTTGGCAAGA
CTGGTCTTGAACCTCTGACCTCAAGTGATCCATCCGCTTGGCCTCTCAA
AGTGCTGGGATTACAGGCATGAGCCACCGCACCTGGCCCTGTCAAGGTTT
TCTTAACATTAGCAACTGCATTTTGATTCTGACAACCTGTCAACAATTTT
GGGCCAGGTAACTTTTGGTGGCTTGTGCCCTGTAAGATTTTAGCAGCATC
CCCGGCTTCTACCCACTAGATGTCAATAACATCCCTCAGTTTTGACCATC
AGAAATCTCTCTAGATATTGTCAAATGTCTCCTGAGGAGCAAAGTTGTCC
TCCGTGGGAACCGCTGATCTAGAGTAAAGAGCTGGAAATGGAATCACCA
GGTCATAGGGCCTGTGCGTTTTTCAGTTTTCCAGCTCTGCCCAAATGTTT
TTCACATTTATCCTCATTTACACTTTTCATCAGCATAATTTCAAGTCTAGT
GATTGATGTGTTAAGCTGAGCTTCATTGCCTTCAATAAGTGATAATGCCT
GAGCCAAGGACAATATGACTGGATTTTACACCAAGGTGCGGGTTAAATC
ACCCTATTTTTTGGACTTCGGAATCAAGGGATTGGGTTAATTAAGGGAGG
TTGCCCTTACAT
>Sequence 1138
GGTACAAAACAGAACAAAGTCTCAGTTTTTCAGTGCAACATTTCAAAAAATA
TATATGCTGCAATCTAATAATTAAGGAATTTTACCTATTATGAAACAT
ATTACATTTTTTAAGTTAGATAATCAGTTTCAAAGGAGTATTCAGGTTA
TTAACTTTGTTTTTAAATGGCTGCATCAGAAAAAAATGTCTATTTTTT
TTATTAATAATTTTCATCACTTGTAAAACATATTTTGTCTGAGTTTG
GTAAAGTATTATTTTACCTGCTGTTGCCCTGCCCGGGCGCGCTCAAGG
G
>Sequence 1139
GGTACTATCTCGAATGAAGTTAAAAACAAATTAGAGGGAAAAGGTCAGGT
TAGCATGTTTTAGAACTATTGGTAACTATAATTCATGGGACATTATATAA
TCAAAAGATTAATATTTAAGCACTAAGTTATAAAGGGTTTACACCCATG
AATAAAAAGATTACCATCACTTACTATGAACCACCATTCATGAATCCAT
GTAGCTGAACACTCCTAATGAAAAGTTAATTATCCTTCAACCTGTAGTT
GAAGAACTCAGTTCATGTTCAATTGACAGATTTCCATTACAGACCCACTAT

Table 2

ATTGATGTTACTTTCTTTGACACTATATTTTATATAGATATATTTAAAT
GAAAACCTTAATGCTGTTTGAAGGCTATTAATATAACTATTAATTTCTGA
AAGCTTTGAGTTTCTGAAAAGGCTTTTAAGATCAAAAATTTCTGAAACACT
CCACACATTTCTCCTCACCACATTTAATTATAAATCAATGTTATACTGA
TAAAAGGTTCTATACACACATTTAGAGATATATGTGTGCGTGGGTGTGTC
TGTGTGTGAATATATATATATAAATTATTCCCCCAAGAAGGAGTCTCAC
TTCCCGCGTCTTGCCCGGGCGGCCGTTAAAGGGC
>Sequence 1140
GGTACCAGATTATGGACTCTGCTTCTGGTGTGGGTAGTAGGTGGAGGGTA
GCCAGGAGGGCTTGGGGTGGGTCATCACCTCACATTTGAGATGGGGTTTT
ATTTTGCAGATTCATGCATTGATCACAGGCCCATTTGACACTCCTTATGA
AGGGGGTTTCTTCTGTTTCGTGTTTCGGTGTCCGCGCGACTATCCCATCC
ACCCACCTCGGGTCAAACCTGATGACAACGGGCAATAACACAGTGAGGTTT
AACCCCAACTTCTACCGCAATGGGAAAGTCTGCTTGAGTATTCTAGGGTA
AGAGGAGACTTTTAAGTAGCCAAGTCGGTGTGTTAGCAGATAATTACTCTA
GGTCAGCCTTTATCAACCGGAGTCCCTCATCTGAACTACAGAACACAGAA
AATGATTGAGTGACTCTTCTCAAATCTCCTCAGGATGGTATGTGACTAGT
ATCATTCTAGATGCAGAGGGGAAAAGTTAATTTATTACAGTGGTAACCTCT
TTGAGAAGTGGTTCTTTTAAAGAAATGTGGCCCTGAACATCTGGGAACCTG
TTACCGAGCAGTTTCTGGGGCCCTTATTTAGACCTACAAAGGAAACTTTT
GGGTTGGGGCCCAAAATCTGGTATTTTGGGTGTTGATTCTTGTGTTGATAT
GAGACGGATCTTGCTCTGTCCAGCTTGAGTGAGTGGCACTAACTTGGTT
ACTGAAACCTTTGCTTCAGATTTAGCTATTTCTGTTCAGTTTCCACTTC
TTAGAAACTTGGCT
>Sequence 1141
ACTTTTATTTTTTTTTTTGACGGAGTGTGGCTCTCTTGCCAGGATGGAG
TGAAGTGGCAGATCTCGGCTACTGAACCTCCACCTCCTAGGTTCAAGCA
ATTCTCCTGCCTAAGACTACTGAGTAGTGGGGATTACAGGTGCCTCCAC
CATGCTCTGGCTAATTTTTGTGTTTATAGTAGAGACGGGGATCCACCATGT
TGGCCAGGCTGGTCTTGAACCTCTGACCTAATATGATCCACCTGCCCTGA
CCTACTACAGTGCTGGGATTACAGGCATAGCCACCGAGCCTGACACGGGC
ATTTTTAGCATGGAAAACGTGAGGAATGAATGGCTGTTGGTGTGCAACA
AATCATACTGGCTACATGTTGTGAAACCTGAAGTTTTTGTGATTGTAT
GAGAAATGATCTCTGGACGCAACACACCCTAAGGGCGAATTTACAGACACA
CTGGCGGGCCGTTAACTATGGGATCCGATCTTAGTTACAAAACCTAGGCTG
AACACATGGTGAAGGCATGTTACATGAGTGAAATTGGTAACCCGCTCAA
CATTTCTAAACAACATACGAACCGGGAGGCTTATTTTGCTAGAGAGGGGG
GTGGCACACACCCCGCGCCACCCCCCACTTACCCCCCCCCCCCCCCCC
CTTTTTTGTGTTGGACACCCCCCTGTCAACAGCTTTTGTGACTTGTCAA
CGCGCCGGATGAGGCGTATGCAATTTGAGGCTTTATCGTTTTTTATTACA
GCACTCCACCCCGCGTGTAGGTGCGGT
>Sequence 1142
ACTATTATCAACTGTGATGATGATGATTGTGAATCTTATTTTCATATCTT
GGGTTTTCTTACAGTGAATA
>Sequence 1143
ACCTACACACATATATGCATATATGGTATAATGTATCAATATTTACAGAG
ACCATAGTAAACACAGCACAAAACAGGCATTAAGAAGATGCTATGGGAA
ATAGCTATTTAAAGTGGTACAATATCGGTAAAAGATTGGTTTTATATGGTT
TTTGGGGTTTTCTTTTTTCAATGATCTATATTTTAAATGTTANNCTTT
AAAATAGATTAACGTGGAATGTCGATTCAACTTTAGTCAGAAAAAACA
AGACTGATATGAAAATAGAAGGGTGTCTCGGCTCGCGACACACGCTTAA
GGGGCAGAAATTCAGCTACACTTGGCGGGCGGATACATAGTTGGAATC
ACGAAGCTACGGGTACACAGAGCTTGGCGACGATAATCAATGGGACAATA
GACTGGTTGACCTTGTGGTGAATAATGTTAATCTCGCTTACGAATTGC
CACAACANACAATACTGACGCTCGTGAAAGGCATAAAAGATGATAAAGC
TCTGGGGGTGCGCTTAAGTGAAGATGAGCTGTAACCTCAACAATTAANT

Table 2

GTGGGGTATGCTGCCTACACTGTGCGCCNGTCTTTTCACAGATGCNGAGG
AAGAACCTGTGGCTGGTGCCCAAGACTGGACATATAAAATGAAAATCTCG
GCTCACACATCCTCGCGGAGGAAGAAGGGCGTGTATTTAGGCGATAATAT
GGNGACNGCTACNTATCGCGTCTTATCATTANGTCCAACCTGGAACACGC
TTGTGACATCGAGGACGATTTCCGCCTTGGCGGCTGAAGCCGGNTAATCA
TTCTTAACGATCAAGACGCCGGGTAAATACTGGGTATTCTCCACAGAG
ATCATGGTGTGATATACCGCTAGATGAAAAAACCATTTGTTGAACACAGA
GAGTGCCTGCCAACAAATGGCTCATGAACCCGATGAAAANGGGGCGCGTGT
TTCGTTGATGTTNTATTACAATGACGGTTCAGTACTCCGCTGGAG

>Sequence 1144

ACTATAAGTAGTTGGTTTGTATGATATGGTTAAAAAGGCCAAAGATAAAA
GGTTTCTTTTTTCTTTTTTGTCTATGACAGTTGACTGTTTAATTTTT
TCTTGGCACTGATTGATGTATTGTGTGAAAACAATTGTTGTCCAACAAC
TAAACAGGAATTTTATTTTGTGCTGAGTTGTTCTAAGCTAAAGATAAAAAATC
CAAAAAATAATGGTCCCTCGGCCGTGACCACTCTAAGGG

>Sequence 1145

GGTACTTGTGTTTGTCTAAACAAAGTGACTGTTTGGCTTATAAACACATT
GAATGCGCTTTATTGCCCATGGGATATGTGGTGTATATCCTTCCAAAAAA
TTAAAAAGAAAAATAAAGTAAAAAAAAAAAAAAAAAAAAAGT

>Sequence 1146

GGTACCAAGGTGAAATTTGAATGTGTGAACGCATTGTTCTGTGGAGTTCT
TTTCAAAGAGATTTCAAAGCCACAAGTTAGATAAGCCCAAGAAGTAAGGC
CAGAGTGAGATCGAAGTAGGCCTTTCTTTAAAAAATAATAGCTTTTATT
TTATGTCAGTATCTTCTTTACAAATCTAACCTTCCCTTTTCACGCTTTTT
GAAAAGATAGCTAAAATTCAAGTGTGTTCCCTCTTATTATAAAGGATTGGGC
TAATAGTTAAGCATTTCAAAACATTTCAGTTTCGTTAATCAGAAGCTGCA
GTGGGTTTGTTTTATAGCCAGTTTGCTTTTAAATTTGGCCATGTGGGCTA
TAAGTTCAACGTATTTGTGTTCTCTTTATTGTTACTCTCTCCAGAATATT
ACCCAAACTGTGAAGTTGTGTTTATGGGGATGGCAAACATTCAATCTATT
CGGAGGAGTTTTCAGTCTCTGCGGTTGC

>Sequence 1147

ACATCTGTCAAAAAATCATATGTATGTGAGATGTGTCAATACTAGACTTGT
GTCATTTATGCTACTTAGAAAGAAGATAAAGAAATATTCCTGGTTTGGAC
TCCAAAAAAGAAAAACGTACGCTCCCTCCTGCAACGAGTAGGAGCATGC
AAACCCCTTTATAATTGATAATCACAAACCCCTCAGACCCAAAGTAAAAATA
AAAAAAGATATGTAACATTAGGCATTGATGGAAGGAGTAGATCCTA
GTATAAGCATCCTAATAAAGGAGAGGTTCAAAGACGCTCTCCAGAACCA
GTAATTCAGACTTTATATGATAAACTAAATGTGCCAGTACC

>Sequence 1148

CCCTTAGCGGCCCGCCCGGGCAGGTACTATTGAACCAACAGGATATCTTTT
TTATTATTTGCATGAGTTAATCCTACAAACAAAATTAATACCTCTTTTA
TAAACATCTTTCCAGTGTTCTAATTGATGGAGATGCGGATCACTCATC
TATAAAAAATGACTTACAGCTTCAGCTTAATCAGTTGCTATAATGTGAAA
ACAGGAATGTGTATTTTTTCAACTAGGTAAAAGGTGCATATAATTTGAA
TTGTTAAATGTTTTATTAATGAACAAAGTAAACCTTTTAGTAATTTTTAA
ATTACTGGTCTTAGGTGTTTGAACAAGGTAAAAGTATACATTCCAGTTT
TGCCAAAAGTCACTTAAATATCTACAAATTATTTAATCTGTGTGTGGT
AACACCATTATTGCTCCAATTCTGGAAAGAGTCTATTTTCAAAGTTTAA
AAAAGAGGAAAAACAGCAAAGTGGCTAACTTTGCAGTGGAAAGAAAAAGT
GTCCTTICATGGGTTACACTTTCATATTTTTATGCAGCATTAAAGTTATCTA
CGTTATGGGGAACCTGGGTTTTATTCCTACTCATGCATGATGTGGTTCAG
AATTACTTGTGCTGACATTTACAGAACTTCTTACATTACCTGTTAACATA
CTGAGGTGCAACTTGGACATATTACAATTTACTCATTATTTGCCATGGGG
GCTAAGTTACTATACTGGTCTTGAAATAAAGTCCCATTTGAAATACTAA
GTTAGACTCATAGGAAGGGGGGGAAGGCCTTAATATAT

>Sequence 1149

Table 2

GGTACCATATTGTTCTTGTTACAGTTGTTACTGTCTCAGATATAATTTTG
CAATGGCGGTTTCGCAACTAGCACTGTCCTGACCCTATGTATCATAACTA
ATCTAGGTAAACAATTAATAAGGTAAATGTAATGTGATAAAATACTTGGG
GACAACTGGTCATAATTTAGAATCTCAAGCTATATTAAATAATAGATAT
TTCATTATTTGGGTATTTTCCAATAAAAAATGTATTGGAGGAAAACCTTTC
CCAAAAAAGGTGTAACCTTTTTAAAAAGGTGGAATAATTTTGTCTAAT
TCAAAGCTTATTTAAAGGTTATGTGTAAAAACAAGGGTAAAGAACCTTTAA
ATAAGAAAGATGTAAATAAAGTTACCAAAAAATAAAGTGAGGGTTTTTGGG
TTTTTTTTTGGTAAGAAGGCTTAAAGAAAAATATTTTATATGAGAAAGAA
TCTTGTATATAAATTTAGACCTAGAATTAATGGCTGTTTAAGTAAGAGG
GATGTTTCAGGACAAACCCCGAAAAATCCAACATTGTAATGAATGGTCTGTG
TTAGTCCAATCAACGGATTTTTGAAAAACATGAAACATACATTATTAAAG
TTCCTGGCCGGGGCCCTTTAAGGGGGAATTCACACACTGGGGGCCGTA
TTTGTGGAACGGGGCTGTACAACCTGGCGGAATTAGGGCAAACAGTTTC
GTGTGAAGAGTTATCGGTAAAATATCCACAGATGGACCCGCCCTATGC
GCCCCCT

>Sequence 1150

ACTTTTTTTTTTATTTTTGATTTTGTTTTAAACAAAAATAATAGAGGAGA
AGCTGGGCACAGTGGCTCATGCCTGAATCCCAGCACTTTGGGAGGCCAAC
TCAGGAGGATTGCTTTAGGCGAGGAGTTGAAGACCAGCCTGGGCAACAAA
AAACAAAAAATTACCCGGGCATGGTGATGTGTGCCTGTAGTCCCAGCTA
CTTGACAGGCTGAGATGGGAGGATCCCTTGAGCCCTGGAGTTCAAGGTTG
CAGTGAGCCATGATCTCCCCATTGCACTCCAGCCTGGATGCCAGAGCAAG
ACACAGTATCAAAGAAAAAGAAAAAACAAAAAGAGGTGGAAGGGCTCAA
CAAGTGCTTTCCACATTCCGCTTAAATTCGGGAATGCTCTAAAGC
TAGAGGACTTTTAAAAAACAGAAAAATACTACTTAAGTATTTTTCTGTGC
CCATGTGAAGTCTGGCAAAAGACAGAACTTTAAATAATTAAAGAGGGCTA
ATCACGAAAGACCCCTAAGTTTGCAGGAAAAGATGAAAGGGGTCTTTCTA
CCAATCCTTAAACCTTGAGGACTGACTTTACAGAACACAATGGAAACAA
CTAAGGGCTTACAACCTCTGAAAAAGTTTGAATAATATTCATTAA
AATTTTTTTTTTATTGAAGGCAAAAAATTAATCGGGTTTTTAATGGAATA
ACCCCAACACCCCTGGTATTG

>Sequence 1151

GGGACTTTTTTTTTTTTTTTTTTGGGTTTTTTTTTTTTTTTTTTGA
GACGGAATCTTGCTCTGTACCCAGGCTGGAGTGCAATGGTGCGGTCTCA
GCTGACTGCAACCTCCGCCTCCTGGGTTTCGAGATTCTCCTGCCTCAGCCT
CCCAAGTAGCTGGGACTACAGGCACCCACCACACCTGGCTAATTTTT
TTGTATTTTTAGTAAAGACGGGTTTCACTATGTTGGCCAGGCTGGTCTC
GAACTCCTGACCTCGTGATCCACCCACCTTGGCCTCCCAATCTTATTTC
TTTACAAGTCTGCTTCAGGGTTACCTTCCCTGACCACTGCTGCCTCCCT
CCCAGCATTTGCCAAGGACTGTCATTGCCTTTAGTTATTTTTCTGTTTT
GGTTTTTTTTTGGCGTTTTTTGTTTTTTTTTGAGACAGCGTCTTAATCTTT
CGCCAAGGCCTGAGTGCAATTGGCACAATCAAAGCTTGTGAGCCTTTG
AACTTCTGGGCTTAAGCCAATTCTCTTACCCTCACAACATGGATACCGG
CTCATTCCACCACGCTTGGGCTTTTAATTAATTTTGTGTAACCAAATTA
ACCTCAGGCTCTGAATACTTGGTTTAAAAATCCCCGAGGGACTTTTTAT
TCCTTTTATACCAATGGAACACTTAAGTCATCTTTCGATGGTAAAGGGAA
AAAAAAAAAATT

>Sequence 1152

ACAAGCAAGACTTTCCTTTAATATTGATAAAGAATTGAGTATCATGTATG
CATTCCCTTTTATGATATACAATTAATTGTAAGTTATTTCCCCTTGTATG
CAACCATCCACATTTTCTTCTGACCTTTTCTCAAGTCTTACAACACTACT
TTTAATGACTGCATTTTGGAGGTGGTCCCAGGAGAACAGATGTTGCCTTA
TAATGGTGTTTTTCCATTTTATCTTTGATTGGGCAAGGGGGTTGGAAGT
ATTATTTAGTCATTATATGGATTCCCTCTAAAAATGTTCAATAGAATATA
TATTCATTTATTCACCTACTTATTGTTTATTTATGCCTAGAGTATACCC

Table 2

AACACTGAGGATACAATAATGATCAAGACAGGTCTAATTTCTGTCCCATA
GAGCCTTAATTTGAATTAGAAAAGATTTTTTATTAAGCCGTGGAAAAAA
AGAATCATAATATAAGTTCCTTTGCCCTGACCACGCTAAGG
>Sequence 1153
GGTACTACATAGAAAAGGGCTTGGAAGTCTGATTCAGGAAAGGAAATCAGG
AAAGAACAAAGGAAATGAAGGAAGAATAAAAAGAAGAGAAGTCATTGAAA
AAGTATGAAAAAATATGAAACAGATAACAAGAAAGTAGAGGAGATTCCAA
AAAATACAACCCAGGTTTTCTGCCCTCATTCTATAGAG
>Sequence 1154
GGTACTGCAACTATCACTTGTCTATTGTCTAGGAAGGTAAAAATACAGGAA
GTTCCCAACTTAAAAATGGGCTTGACGTAGCAGTTCATTTGTAAGTCACT
TGCTTGGAATTTAGAATGCTTCTTCCCTCTGCAGAGACAGCTTCCATATG
GTGATTAGTATCCAGTCAGCCACAGAAGTTATTCAGTCTGTTGCTATAG
ATGAAATTATCCTTATTTTACTTCCCTTCGAATAGACCACCTACTGTT
TCTTCTGAGTGTGGTCTTTTTCTTTCTCCTATTCCCTCCTCAATCCTCT
TTTTTTTTTTTTTTTTCTGGTTTTCTTCATTATTCTCTAATTTCTTC
TTGTCTCATAATACTTCAGTTCATTGTGGTAGCTAGATTTAGGGACTAG
TTTGAAATGCTACTTTGCTGATGGAAAAACACATTTTGCAGCCCTTAACAA
GAAGCAAAGGGTAGATAGGGTTTAGCTAATACTTAGTAAGGGGGCTTACTA
TGTGCCATGGTCCCTGCCCGGGCGGCCGTTATTGGCCAATTTCAACAAC
ACTGGCGGGCGGTTACTAATGGAATTCGAAGCTTGTTAACCAACCTTGGC
GATAAAAAATGGCAAAACTGTATCCTTGGTGGAAATTTTTATCCGTTAC
AATTTCAAAACACATTACAAACCCGAAACAATAAATGATAAGCCCCGGGT
CCCTATGAGGGGGCCAACTACCATTAAT
>Sequence 1155
GGTACCTGCAGGAACAATATTCCTGTAGCCATGGAAGAGGGCCAAGGCTC
AGTCACTCCTTGATGGCCTCCTAAATCTCCCCGTGCAACAGGTCCAGGA
GAGGCCATGGAGCAGTCTTCCATGGAGTAAGAAGGAAGGGAGCATGT
ACTTGCCTTACTTTGTAGCCTTCATCAGGGTTTGCTGAAGATGGCGGTA
TATAGGCTGAGCAAGAGGTGGTGAGGTTGATCGGNGTTTATCGATTACAG
AACAGGCTCCTCTAGAGGGATATGAAGCCCCGCGT
>Sequence 1156
ACGCGGGCATTTTTGTATTGCTATTAAGAAATACCTGAGACTGAGTAATT
TACAAAGAGTAGAGATTTAAATGGTTCAAGGTTCTGCGGGCTTTACAGGA
AGCATGGTGCCAGCATCTGCTCAGTTTCTGGAGAGGCCTCAGGAAGCTCT
TAATCATGGCAGAAGATGAAGGGGGAGCAAATTAATCACATGGTGAGAGC
AGGAACAAGAGAGAGAAAAGGAGATGTACATATACATTATGTAATTAATA
GCGTGATGTGTATGTATTAATAATAATGGTATATAAACAATAACAATAT
ATACAATAAAACACCTAAACGCAGAGGCTGCTGTTATCCACAATAGTAAT
ACCAATAGTATTAATGTGTATGTAGACACAGACAAAAGCAGCGGACG
TATTAATAGGCAGACACACAAAAGCAAAAGCAAAAGCAGCCAGTAATGG
TGTGGATGCAGTATCAAGATTTGTCATATAGACATAAATCCAGTAGACAC
TGGAATAGTTTTTGGTATTTAACTTGAGACAAAAAATGGTCACGTTGGC
ATTCACTATTATATGTAAGTGTAACAATTGCCCTTTTATGTTTTACATTA
TGTCTGTCCAATGGCATGTAAACCACACTGCGATATACAATTTACAATG
CTTTTTAAAAATTTTTCTTAAACATTTTAAAAAGTATTAACCTCACCTT
TTTAAAGGTACCTTGCGCG
>Sequence 1157
GTACAGGCTCCTGCCTTTAAGAGCACTGTTTTGCTTTTGGGGCAGAAAG
CATGGACTTTTAAAGGGGGACTTGGCATGAATGCATTGAGAGGGGAGT
GAGCAGTTGGGGGTCTGCGTGACTCGCTTTCGTGCTTAATCTACTGGTGG
TCGAGCTGGCTGCATCAAGCAGAGCTAGGTTGTATAGTGGCCTTTGTC
TCAAGACACTTCCAGGTGGGAGAGCCTTCCATCAGGGACATACTTTAGG
TTGCAAATTGACTGTTGTCTCTTGAGGCAATCTCCTTGTGGGAGAGAGTT
TCTGCCCTGGAGCTTCAAAGTAAGCACGTAGTTAGATAAGCTTCCAGTGT
AGTGAGTGTCTGGTGAAGGAAGGTAAAGGTTATGATTGCATTTCTGAAG

Table 2

AGCTAGGTAGGAAATGGGAACTAAAAAAAAAAAAAGAAAAAAGTTCCTGC
CCGGGCGGTTCGCTTCAAAGGG
>Sequence 1158
ACCGTAAAAAGAGCCGCGTTTGCTGGCCGTTTATCTAATAAGGTTCCGCA
CCCACCTGAGCAAGCGTATACAAAGAATCGGACCCACAGTGCCAAAGGG
GGCGGATACTCCGCGCGTGGCTATAATGGAATCCACCGCGGTTTCGCACCT
GAAGATTTCCTACGNGGCCTCTCCCCTTGACCCG
>Sequence 1159
ACACCAGCCTGGCGACAAGAGCGAAACTCCATCACACACAAAAAATTA
ATTAAAAATAAATAAACATTGGTCAAAAAATCAAAAGCTGTATCAACTGT
ATATAAATAATTCAATTAATAATATCATGCATAAAATCTGGGTG
>Sequence 1160
GGTACTGGGATTACAGATATGAACTACCGTGCTCCCTGATACCCTAAATA
TTTATCAAAATTTTCACTGCTATTTTCCTCATGGATTAAAAGGGCTATT
TATTATTTTATAACTACAGCTGACCCCTGAACAACATAGGGGTAAAG
GTGCAGATCCCCGTGCAGTAAAAAAAAAAAAATCAAAAAACTTTAGA
TTCCCAGAAAACTTGACTATTAATAGCCTACTGTTGACCGGAAGCCTTAC
AAACAGTTAATACACATTTGTATGTTGCATGTATTATATAATGTACCTG
CCCGGGCGGCGCTCAAAGGG
>Sequence 1161
GGTACTATAAAGCTTTTGTTCACACACACTCTGAAGAATCCTGTAAGCCC
CTGAATTAAGCAGAAAGTCTTCATGGCTTTTCTGGCTTCGGCTGCTCAGG
GTTTCATCTGAAGATTCCAATGAAAAGAAATGCATG
>Sequence 1162
GGTACCAACCCTATTTTACAGATGGGAAAACTGAGGCTCAGAGAGGTAA
ATCACTTACACAAAGCCACACAATTTGAGTGGCAAGCTGGAATGTGAAT
CCAGGCAGTCTGACCCCTGCAGCTTATGTGCTTAACGATACTGCCTCTCAT
GTGGGCAAAGGATGGCCAGGAGAAAGGCAGGCCAGATTCCAAATCTGG
CTTGACCGTCTAAGAGGCTGAGTCTTAACCTCTCTGAGCCTTTGCTGTTT
CATCTGTAAAGTGCTCCTCTGACAGCTGCCTCCTAGGGTTGTTTGAGG
ATAAAGTGAAGTAATGGAGGGCCCTTGGGATATGGTACCTGCCCCGGGCGG
CCGCTCAAAGGG
>Sequence 1163
GGTACCTTTTTCACCCTCTGAAATTAAGCAGGCTGTGGGGTGGTGCT
CTGAAACTAGGTAGAAGTCTCACCCCCAACAACCTTTACCAGTGGTT
TTAGCATGCAGAAGATTCTGGCCTGAACCAGTTACTACTACAGAGGCTGC
AAAATGATGATTTTTCATTCTTTTGTAAATACCCGGTATTTTCA
CAGGATGAATGT
>Sequence 1164
NACTTNTTTTTTTTTTTTTTTTTTCTTCTTAGCAGGGTCTCACTCT
GTCACCTAGGCTGGAGTGCAGGCAACAGGCCAAGACCCTG
>Sequence 1165
CCCTTAGCGGCCGCCCGGGCAGGTACAACTTTCTTCAGTTCTAATTTCT
AAGATGTTTCACTCTTTAAGTAGAAATGAAAGTCATCTGACTGAAAATTA
TAGCAGTATCTAATTGTTTTTCATAACTAGCCAAATTCAGAAATGTCCTG
GATATATTTCTGGACAATGTAGATGCTGATATCCTTGGATTTAGGTTATA
CTGACTTTTATCTTTACCAACCATATTAACATTTGCATTTTATAATTGG
AATGAGAAATTTAGAGTAAGAGATCTGGATCATGCAGGCAGGCAAGCATC
AACCAACAATACTTTTATGTACC
>Sequence 1166
GGTACGCGGGCAGTGGTTTTGCTCTATACCACTGAAAAGCACTATAACAT
AATTGTTGTCCATGATACTGAAGCTTTCCCTCACTTGTAGGTTGATTAC
ATTCAGAGCTCTATCAATAAGAGGAATACATATTACAGTGAATTCGACAA
CCGCACAAGTTGGCAGTAGGTATCCCCAACCTAATTTATCTTGGTAAATT
CACCTGTTTCTAGTGCTGCTGGATAAAAGAGTGTCTTACTTTTATTGTC
TCTTAGACAGAGTAGTCTAGATAAGTTTCAATTTATCAACATAGCCTAG

Table 2

ACTTCTGTAAGTGAATGATCATTAGTAACTCATCTTTTTGTTGATATAA
TTGGAAACAGAAACGAGGCTTATTGCTATTGCAGAAATCCCAAACCTGGCA
AAGGCCAAGTTATATGGTATTCCATAATATAACCAGCTTTTGAAACTTAT
GTGCTTGGATTAGTGCCTTCTGGTTACCAGTATTGACTCTGTTACTTGA
CCTTTCGGTCTTAACAGAAATTTGGAATATGTAATCCTCTTAAAATTGGT
CGAACCTAGTGAATGGAAGTAAATCCAGGAATTCTACAGATAATTGGTCC
TTGCCGGGGCGGGCGTTTAAAGGGCGTATTCCAGAACATTGCGGACGTTA
CTAATGGATTCCACCCCGGACCCAGGCTGGCGTAATATTGGGTGTAATC
CCTCCCCCCCCCTATTGTTTTGGAATGAAATCCCCACCCCCCCCCC
CCGAGGAG

>Sequence 1167

GGTACTTTTCTGCTTCTAATTTTTAAAATTATTAATGTCTTCTATTTTT
CTAAGGCTGATTTTTCTAATGTCTGATTTTTCCTTTTTTTCACATCTTG
ACATAAGTAGAGTTCAATTTATTTTCAATTTCTGTATAATAAAATTAC
TTAAGGTTAGGAATAATTAAGTTTTGCTCCCATGTTTTATGTGTAACAA
TCTCAATGTTGTATGTCATCTACTTCAAAATTTCAAGCTTCCCCTTTAAA
ATACTGTTTAAAAAACTTTATGAAACCAGTATTTCTCTCAACCTTTGTGT
AATACCTGGTTTTACTTTAATGTGGTCAAATAATTTAACCTGTACTGCAT
CGGCAGTGCCTTCGGACTGTCTATTTGACCTGCAGTCCAACCTATGGCCT
TTCTCCTTTTGTCTAGTTCAATCTCTAACCACCAACCATGAATTTAG
GGAACCTCTTTTCTCATTCTCTTTGTTTTGTGGCCACTTTCACAATGTAGA
AGGAAAAAACCAATGACCCCACTGTGATGTGAATGGCACCCAAATCAGA
TAAGTTTCCCTGTAGGTTAACCTGCAGCCCTGCGTTGCCACTTGGATTAA
CTCTGAATTTATTTTCCAAAAGTGCCAAAAATTTGAAATCTTGCTAGTG
AAAACTTGCTCTACTTTTTTGAATGATCAAAAACCCCTAATATTTTCAT
ACTTTATACTTCTGTAAAAATAGATTTTCCATTCAAAAAGTGCAGAAAC
TTAAAAATACCTGTCCGG

>Sequence 1168

ACGCAGGGATATACAAAGGTGAAAAGAAACCTGAAATATTTGTTGATGGC
TGGAATATTTATTTTTTGGATCAAAATAGAGAACTGCCTACCTATTGGTCA
GAATGTGGAAAAAATACAGAATCTGTTGGGCAGTTATGGTTGGGCCTTCT
TCGTTTCTACACAGAGGAATTTGATTTTAAAGAACATGTTATTAGCATCA
GGAGAAAAAGTCTGCTTACAACCTTTTAAAGAAACAGTGGACCTCAGAATAC
ATTGTTATTGAAGATCCCTTTGATTTGAATCATAATCTCGGAGCTGGATT
ATCAAGGAAAAATGACAAATTTTATAATGAAGGCTTTTATCAATGGTAGAA
GAGTATTTGGTATTCCTGTCAAGGGAATTCCAAAGGACTACCCCTAAAAA
TGGAATACTTTTTTGGATCCACAAGTGTAACTGAAGGAGAGCTTGCCCCC
AATGATAGATGTTGTCCAAATTTGGGGAAAAATCGGACACTTCATGAAAG
ACTTGTCTATGAAGAGAAAAAGTAGAACGCGGGGAAAAACAAGAAGACGCC
CTTGAACAAAGAATACCTGGGACAAGGGAAAAAGAAGCCAGGAGGCCAAG
AAATTCCCAACAGGTCCTTTGGCCGGGACACGCTTAGGGCGAATCCACCC
AAT

>Sequence 1169

GGTACACCTGGTTTCACAGAAAACAAAGCAACTCTTAAACACCAGCTGGC
AAAATGATAGGGCTTTTTCCTTTGAATACTCACCACAGGTGTGAAAGACAG
AATGACTAATCCATCTGATTAAACATAGACCTTTTAGAAATCAATAACCT
TATTTACACAGATGACAACTGCTACTGTTCCAAGGCTCCTAATCATGGTT
CAGTTCTCAGGGCCTCAAGTCTTTTCCATTCCATCGCAGAGTAGT

>Sequence 1170

GGTACCGCAGCTAGGAATAATGGAATAGGACCGCGGTTCTATTTTGTGG
TTTTCGGAACTGAGGCCATGATTAAGAGGACGGCCGGGGGTGGCTATTGT
GGGAAGTCATAACCCACAGATAGATCAACCTAAGAATCCTGGCCCTTCTC
CACTCTCCACCATGCAGGACAAACATCTTCTCAAGCAGTCAACGTAGAAT
GCTTGGGAAATAGTCATAATTACCCACATATAGTAATTAATAGATGGTAA
TTAATTGATCCTTGATGTGATGTTCTTTGTCATTTTCTTCAATCTAAA
GATGTTCCCTGGCCGGGAGCGTTGGCTTTCGCTGTAATCCCAACACTTT

Table 2

GGGAGGCCAGGACAGATCGCTTGAGGTCAGGAGTTCGAGACCAGCCCAGC
CAACATGGCGAAACCATGTCTCTACTAAAAATACAAAAATTATGGTGACG
CCTGCCTGTAATCCCAGCTACTCGGGAGGCTGAAGCAGGAGGATCGCTTG
AACCCATGAAGTGGAGACTGCAGTGAGCCGATATCGCACCACAACGCTTC
AGCCTGGTCGACAGAGTGAGACTTCATTTCAAGAAAAAAATAAAATTAAG
TTGTTCTCTTAAGAAAAAAAGTCCTTGCCGCGCGCCGTTCAA
AAG

>Sequence 1171

ACAGGAGGAATGTTTGGTTGGGAGAATCACAGCTTTACAAGGGTGTTTAT
ATTTGATTTGTGTTTATATTTGAGGCAGGTATTGTAATATAAAGGAATCC
ATTACCATGTCTATAAATGACCTCTAGCCATTTTATGATTATGTTCTCT
GTAAACTCTTCAAGACTTCAATGAGAAGTTTGTGTTATAAGAATTATCTT
CTCATACCTTTCTTGTGAAGAGCGTATTCTGTTTTCTATCAGTTCCGAC
ATGAAGTCCACATCACATGCTGTTCTTTCTAGTTACATGATGTGCCTT

>Sequence 1172

GGTACCAACCTATTTTACAGATGGGAAAAGTGAAGGCTCAGAGAGGTTAA
ATCACTTACACAAAGCCACACAATTTTGAAGTGGCAGAGCTGGAATGTGAA
TCCAGGCAGTCTGACCCTGCAGCTTATGTGCTTAACGATACTGCCTCTCA
TGTGGGCAAAGGATGGCCACGAGAAAGGCAGGCCAGATTCCAAATCTG
GCTTGACCGTCTAAGAGGCTGAGACTTAACCTCTCTGAGCCTTAGCTGTT
TCATCTAGAAAGAGGACCTCCTGACAGCTGCCTACTATGGTTGTTATGAG
GATAT

>Sequence 1173

ACGAAGACAGCATCCTTCAATCCCGCCAGCTCATGTGCATCTGAGGGTGG
GGCTCTGTCTTCATGCTAGAAACCAAAGTCTCTACAGCTTCTTGCTAA
ATCACCACGGCTAACGGATAAGCAGAGACGGACTACCCGCGTACC

>Sequence 1174

GGTACAGATTGCATAATAATTTTATAGATAAATGTCAGGAACAGAATCACA
TTCTTAAAAGGCGAATTTCTATAAACGTGTGTATATGTTGAACAGATGAG
CAGCTCTGCAAAGATGTGTATAACTGCATTTGAAAAAGACAGTGAAAAAT
TTGGGTTACTGTAGATGTCCACAGTCTGGCTTGGAAATTTAGTTCTGTGA
CTAAAGGAGGCTTACAGTTGCTCCAATTTTGGTTCTGTGGGTACCTGCC
CGGGCAGCCGCTCAAGGG

>Sequence 1175

GGTACATGGTCACAACAGATGAGCAACTGATATCACTCACACATGCTATT
AAGAACTGTCTGTGATAAATAACAGACAAGAAATTCAGGCATCAGAAAG
CGGAGCCACAGGTAGAAGAGTTATGGACAGTCCAGAGCGTCCAGTTGTAA
ATGCCAATGTCTCAGTGCCATTGATGTTTCAGAGAGGAAGTGGCTGAATTC
CCACAGGAAGAGTTGCCCGTTAAACTGTCTCAGGTGCCAGACCCTCCAGA
TAACATGAATCTGGCCAAGAATTTCCAGCACATATTTTGAAGCCAGCTG
TGTTGTTAACACCACC

>Sequence 1176

ACCGCGCCGTTAAACATGTGTCACTGGGCAGGCGGTGCCTCTAATACTG
GTGATGCTAGAGGTGATGTTTTTGGTAAACAGGCGGGTAAGATTGCCG
AGTTCCCGCGTACCAATGACTGGTTCCATGATCCCTAAGAGAACACAA
CTTAGGAATGTGGATTCTAATGATAGCTTTATACTGCTTAGGCAAATTTA
CTTCTGAGCCTTATGTGCCCTTCAGTGGTGCAAGCAAATTTCTTTACACT
TTAGAGAGGTTGATTAAACGAGTACC

>Sequence 1177

GGTACACTGAAGAATTAAGCTGTAATGAGGCAACACGCCTGCAACTTATT
CTTTAATAGTTCAGAAATATTAACAATTGGGTAAATTTGGGTGAAAGGTAT
AAGGAGCTATAAATGTTATTTCTGCAACTTTTATGTAAATTTCAAGTTAT
TTAAATGAAAAGTTAAAAAGTTTAAACATAACAGAATAGAACATAACC
TATTAATAAATCTGAGTCCAGGCATGACACAGTGGTTTCATGCCTGTAAT
TCCAGGGAGGGACTGGGAGGCCGAAGTGGGCAAATCACTTGAGGTCAGGA
G

Table 2

>Sequence 1178

ACTAAATTGTTTTAGAAAGCAAACACTACAGGACTTAAAAAAGGTGATTTTT
TTTTTGGCTGCAAGTAGGCACTTATTGTAATTTTTATTCATGCTATGAA
CTCATGATTTTCCCTTTATTCTCCTTTGATCCTACTTAAATAAATTTATA
GAGTATTGAATAATATAGAACCAAGATAAGAACCCTAAGAGACTTTAGAT
GTTTATTTGTTTCATTAGCACTCTGAGTACC

>Sequence 1179

GGTACTTNTTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTATTAAAAAAAACTGCCTCC
TTTAATGGCAGGAATACAATTCCTTGGTTAAGAGACCCCCGAAAAAGGC
AGGTGACTTTTTTGGAAAAACAAATTTGGGAGTTTAAAAAGGGTGTAATAAT
ATTCTGCGGCGATTTTTGTAAAAATACAGTTTTATGTTTTCTTTTTT
GCGACACCCAATCTTAAACTCTTGAAACAGGTTTTTCCCTTTTTTTTT
ACAAACCCTGGTTAAAAAACCAATTTTTTTTT

>Sequence 1180

GGTACTTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCCCAGGGGATTTTAT
TCCCTTTTAAAAAAGGTTTTTAACAGAGGGTTTTTTTAAAAAATTGGAC
GGGGGGGGAAGTGGACAGGATAAGGGGGAAGAATTTTTTTTTTTTCCC
CCAAAAAATGGTTTTGGGGGCTGAAATTTAAAAAATTTTCAACCGG
GATTTTGGCACGGGGGGGGGGGAAAAAAGGTTAAAAAACCCTT
AAAGGGACCGCTTAAAAAGGGG

>Sequence 1181

ACTTAGGCTTTCATAAAATACAGCAGGGCAAGAGGACCAAGATGGAGGC
AGTGATCAGGGAATCTCAATGAGGGTGAGACTGCGACAAAGACTTGAAAA
AGGTGGAGAAGCAAGCCTTGTGGGTATTTAGGGTAGCAGTAGTCCAGGCA
AGGGGAACAAGTAGTCAAAGGCTCTAGGAGGCAATGTGTTGAAGTGTT
TTAAGAACAGTAAGGAGGCTAGTATGGTTAGAACAGAATGAGCAAAGGGG
CAAAGTGGTAGAAGGTGGGATCAAAGAGGTAATGAGGCCATTGTGGAGGC
CCATATGGACTATTGGN

>Sequence 1182

GGTTCTAATGAAAGCCAGATAAAGGGATGGACGATCACAAGGTGAAGTCC
CACAGTAGGCTATCTGCAAGCTGAGGAGCAGGAACCGCCAGTCAAACCTCA
AAAGGATAAAAGGGNNGGAAGCCGACAGGGCAGCCTTCAGTCTGTGGCTG
AAGGCCCTAGAGCCCCTGGCGAACCACTGGTGTAATCCAAGAGTCCAAA
AGCTGAAGAACTTGGAGTCCAATGTTTGAAGGCAGGAAGCACCCAGCACG
GGAGAAAGATGGCCGGAAGACTCAGCCAGTCTAGCATTCCACATTCCCC
CGGTACCTGCCCGGGCGGC

>Sequence 1183

ACTTTTCTTTTGTGTATTACTTTTCACTTAGCATAATGTCTCCAGCTT
CATCCATAGCAGCTTCATCCATAACTTCTGGGTGTAGCCATGGCAAGGGT
AAACTGATATGGCACACTGGTGGGCATGTCTTCTGGAGAGGTGCTTCCAA
CTCTTCCCTGTTTATGCTAGTCTCAATTTGTCTGATGTCTGAACCCAC
TGCCAGAGTTGAGTCTTGCTGCTGAGTCATGTCCAGACTCCTACCTCAG
AAGTATGAAGCATAACTGGTGTTACAAACACCATCTTCAGAACAGTGATT
AACCTTACGCT

>Sequence 1184

ACGCGGGGGAAGCTCATTCTATACCCGAAGAGCAGTCTCAGAAAGCAAGA
TTACTTTTGTGTTTTTAAAAAATGATTCTTTAATGTATTTTTCTAAACA
TTCTGATTGGAAGTAGTGGATTCTTAAATGATTCCAAAGTCATCTGTAAT
TCTTCTGTTTTTGTCTGTCTTTTCTTCATTTTGGCTTTGGGTGG
GGGGAGGGGCAGGTGACACANAGGATTTTTTTTTTTTTTTAATTTTT
GGAATCTTTTCCAATAACCAGCTAAAGATTGCACTGAAATACAACCTGT
ATGCCTTTTGCAAT

>Sequence 1185

ACTCCTGTATTTGTTCTTATGAAATGACTATCTGCCTTCTCGTATCTAGT

Table 2

AAGATTGGCTGGCTCAACTTTCTTCTGTCAAATTATATGGTTATTTTTTA
TATTACCACATCAGCATTATATTTAAAGTGTTTTAATAGTTGAATGTAT
TTTGCCAACTACTAGTATAGACTCAAATTTGCTATTTAATTTTTTAAATA
CAATTTATTTTGTAAATCCTTTAAAAAATATTTGGTTAGTTTTGGATTAG
AAATGATTTATGTTAGCCATGTGTTGAAGATGAAATTGGCATCAGTGTAG
ACGGTGCTGATTG

>Sequence 1186

ACATATCCCTATCTACTATGTAAAGACAAAAAGGCAAATGAAATGATGTA
ATACAATGAACCTCCTCAGAAAAAAGCTCTGTAAATCTCAGACTGCCTG
TTTATCATATGCTAGAGTAACTTACATTCCTTTCTGTTAGAGAAAAAT
GATGGTAAATCCATGCATTAATCAAACTAAAAACATGAAAAGGCAAGC
CAACTACAAGAGAAATACAGTTGGCCCTGAACAACACAGATTTGAACTA
CATGAGTCCGTGTACC

>Sequence 1187

ACTCTCAAAATAACCTGTGAGTTGGGAAATTCCTCTCTCTTGAGGTCCCA
AGATGGCGTGGGGTTCTGGGCCTGTGGGAAAGTGGCATTCTTTACTAAC
CACAGGTCAGGAACCTGCACAGGAAGTGTAGACAAGGTATGAGGCCA
GTTTTCCCAAGGAACTTTTATTGGCTCCATAAGTCAAGTTTGAGTCCTTA
AAGGAAAGCACACCATTTCCCATCAAAGTCTGGTAAAACAACTAGTTTCT
CTAATTGTGTCTGTGCAAAAGAAAACAGATTCTTATTGCACTGTGCA
AATG

>Sequence 1188

ACATATCTTACTTGATTATTTATTTTCTATCCCACCAATCCACACCTTC
ACTGGAAGTAAGTTCCATAGAGGCGGAGACTTTTGTCTATTTGTTCAA
TGAACATCCCAAGCACCTAGAACAGTTTCTGACACATAAGAAGTATTCAA
TTATGTGCTGGCTGAATGTATGAATTAATAAGTTGAGATTCGATCACTAG
TTGAAGTATAAATATATTTTTGCAAGAATAAATGCTACAGTAACTGAT
TATGACAGCTAATTCTGTGTACC

>Sequence 1189

GGTACAATGGCATAGTTGAGTAGTCACCACAGGACCTAGCTGAAATCCTA
AAATATTTATATCCCTTTATAGGAAAAGTTTGTTAATTCCTACAATAGA
CAACGAATATCAGAATCTATCATACACAGCAATGGTGAACACCTATTCC
AGTTGGGGTGTGTGTGTTTGTGTGTGTGTATGTGGTGGGTATAGT
GTNNANTGNTTNTTACTGTGACCATGTNNAAAAAATTAATAAATAA
ATTAATGACTGTTTAAGTGCTTAAACCATGCCTGGAACATAGCAAGGTC
TGAATAAATGTTAGCT

>Sequence 1190

GGTACACCTGGTTTCACAGAAAAACAAAGCAACTCTTAAACACCAGCTGGC
AAAATGATAGGGCTTTTCCTTTGAATTAGTCACCACAGGTGNGAAAGACA
GAATGACTAATCCATCTGATTAAAGATAGACCTTGGAGAAATCAATGACC
TTATTTACACAGATGACGACTGGTACTGGTCCAAGGCTACTAACGATGGA
TACGTGAGCAAGGCCTGAAGACTTATGACAGAGGGAGGAGGGATGCC
TAGCCGGGGCTNCGGTGGGAAGGGCAAGAGGTAAGAGACCCGCGAGTGCG
GGGGAGATGGG

>Sequence 1191

GGTACTTCTACCATCTTTTGTCTACTTTCTGTGACTTAAACTGCCATCTGT
GATACATGAGGACTTACCTAAAATGTCTGAGAACTGACTTACGCTTGATT
ACCAATGTTTTGGAGTTTATAAAGCTCAATTCTAACAGAACATGATGATG
TATAAAAATAATCTTAAAAAATAAATATGATGGTATAGTAATAAAGTAA
AAATAAATATGGT

>Sequence 1192

ACAAAACAAATCTGAAATATCTTATTTAAACAAGAAAGTAAAAATGTTATC
AAAAACTACTGTCGTCTCATCAAAAAGATTCAAGGCAATTTAAAGAGT
CTCACACTGGACACAAAAATAATTTGAGCTTCAAAATAAACTGCAAGGGA
TAAAAACACATAAATTTGTGTTAAATCCACAAGTTCATAATGATACTAAA
AAAAAAAATCTTGTGTTTCTCTAGAGGCTACTAGAAAATCAGCTCA

Table 2

TTATTTCTGATATTGGTTTAAATAGAAGAAAGAAAACCAAGCATC
>Sequence 1193
ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCATTCAAGAAAGATAAT
TTTACACTTATTCTTTGAAAGAGAAATTCTATGGAAATTTCTTCTTCTAA
TTTAATTCCAAAATACATTCTCTCAACCCTATGCCCTCATACTAGTAACT
TGATGGTTAGCGGGTAAGTAGGTAGTAGTAAAGAACAGAAAGGGGAAATT
GGGGGAGCAGAAAAGGGGAGAAAAAGAAAGAAAGGGAACCTTCTAGTTTCC
TAATAAAAAAGCTAGAGAATTCCATTCTGAAAATTAAGATATT
>Sequence 1194
GGTACATATACATTATGTAATTAAGCGTGCATGTGTATGTATTAAAA
ATAATGGTATATAAACAAATACAATATGTACAATAAACACCTAAACGCA
GAGGCTGCTGTTATCCACAATAGTAATACCAATAGAATAAATGATGAGTA
TGTATACACAGACAAAAGCACAGGACGTATTAATAGGCGGACCCACAAAA
GCACAGCATAAGCCAACCTAGTGTAGCGCACCGGTAGTGTGGTGGTGGCGG
GATCTAAGATGTGAACGATGAAAATAAAGACAGCGCATCCCGGACGACCA
CC
>Sequence 1195
GGTACATAGTGTGCGGAACCTCAAATCGGCATTTAGATAGATCCAGGTGGT
TTAAACGGCACGTTTTTTGCTTATAAAAAAGTGCAAAAAAGATGTGGT
TACAAGTTAAAGCTACCAAAACCCTTTTTGCTGGAATTGCACCACTTTT
AAAGCCTTTTGGACAGAACCAATTTTTGGTTTAAACTTTGTTTTCTTT
AAAAGCTTACAGGGGTTTGGCTTAATCTTCCTTCCCTTTTCAAAAAACG
GGGGCCCGAGGGTTGGCCCTTGGGGGAAGGGTAAAGGGTA
>Sequence 1196
GGTACTAAAGGGAAGTTGCTAGGAAATAGAGCATGTAATCTTATTGTAA
TTATGGAACCATGGCAACACAGTAAATATTAATGTCTCTTAATTTGTCTT
TCAGTGATTTTTGGCATGAGTGTTATGGAAGAGTAAACAAAATTAACA
CAGTGAACCTGAGTCATTTGCTACCCGAGTTAGTCATTTTCTTTGAAG
GTTGTCCANACAAACACTTTTTTTTTTTTATTTTCTCCCCCTGTTGTGT
CGGGGCGGCAGAAAAAATAAATGAAAGATAGGGATTATAGTT
GTATTT
>Sequence 1197
ACAGGAAGTGTNCGGAGGAATATATAGAAAAGTCTAGGCTTAATTCTC
AGAGGGAAGATTGGGTGTTTGGAGTGGGAAGCAAACATTTTTACTGTAT
ACACTGTACC
>Sequence 1198
GGTACATGGCCCGCTCCCCGTCCATTCCAGTTTCTGCCCCTCTACTGGC
CATGACGGTCATCAGTGCCCTCCTCATTCTAACTTTTAAATACACTT
GAGACCGCCTGATTAATCTTGCACTANGAAAAACAGAACAAATACAAACA
GTAACAAAAACAAGACACTCACATACAATGNTTTAATGCTTGAAAAGT
>Sequence 1199
GGTACCACATTCCTGCTCAGAAAGTCTCACTTCCTTAAATTGTCTTTTT
TCCCCAGCGTGAAATGTATCCATTTATAACTGCCTATTGCCTGTTCTAT
TAGCATCCAAAAATGTGGAAGGCCTCCCAACCACCATNTCTGCTGTGTNC
TTAGGATGTGCAGNAAAAAATATAGACCTAACAGGTTATGTTATAGAATG
GCTTTATTACTTTGGTGACTGTTTATGAGTTTTAAATAAAAGACTGAAC
ATTTTCTCGAAAAAAGAAAGAAAGTACCTGCTCGGGCCGG
CCGCTCGAAAG
>Sequence 1200
GGTACTTACAAAAAGCAAGAGAGAACAGTGGTTAAGGACGCTGACTCTG
GAGCCAGATTGTTTGGGTTCAAATCCTTGCTCTGTCTTACTGTGACGA
TTTTAGGCAAAATAACCTAACCTCGCTGTGCCTCAGTTTCATCATCTATAA
AATGGAATTTATAATAGAACCTACATCATGAGTTGGTGTGAAGATTAAAT
ATATTTATATCCCGGCTGGGTGCGGTGCTCAACCCTGTAATCCCAGCAC
TCTAGAAGGCCAAGACAGACAGATCACCTGAGGTGAGGAGTTCAAGACCA
GG

Table 2

>Sequence 1201
ACGGAAGAGTAAGTGGGGAGGGATGGGAATGGTTCCTTGAGACAATCTTT
TACTACAGTAGATGCTTCATGGATGGGAGAGTAGGGACTGGTGACTTATT
TATAGCCTTCTCTTTTAAAAAAGGACCCATTTCTCTCTTGAATGGTGTGG
TGAAATTAAGAAAAAAAAAAAAAAAAAGAAAAAAAAAGAAAAAAAAAGTACC

>Sequence 1202
GGTGCTTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAATCAAAAAACATTTTT
TAACTTTTTTTTGCCAAAACTTTTCTTGGAATGCAAAAAATAAAAA
GGTTCCTTTTTCTGCCCTTAAGGAGCTAAAATTTTAAAAAACTTTTAA
AAAATAAAAAAATACAATCCCTGCCCGGGCGGCCCTTAAAAAGGGCA

>Sequence 1203
ACTAGTCCATTCTCACACTGCTATGAAGAAATACCTGAGACTGAGTAATT
TATAAGGGGAAGAGGTGAATTGACTCACAGTTCTGCAGGGCTGGGGAGC
CCTCAGGAACTTATAATCATGGCAGAAGGTGAAGCAAGCATGTCCTTCG
CATGGCAATGGCAGGGAGAAGTACC

>Sequence 1204
GGTACTTTTTCTACAAATGAGTAATTGAAGAATTTGTTTAGCCAGAC
CATTTAATTCATCAATTGCATAATTTTCTAGTTAAATCCGAACCTCA
TTCTATATTAAGTAACATTTTATTCAGATCCATATCTAAATAGCAATTT
GTGAGATTTACTAAGAATTTTCTGGTATGTATGGTTTGGTGTATTGG
AATGTACCTGCCCGGGCGGCCGCTCAAGGG

>Sequence 1205
GGTACCAGAAGCTAATCCCCACCGGGGTTGGTTTAAATAGGGACTAACTA
CTTTGGAGGACATGGAAGATACCTCAAGTTTAAATGCTTATAAACCAAGG
CTCAGCAATATTCTAGTTAATACTCTAGAGGAATGCTTGCACAGTGCCCA
AGAAGGTATTAAGAAGATGTTTATTTCAGGTGTTATTGTGATAGTGAAT
ACTGGAAGCACTGTAACGGTCCATTACAGAAGAACGGATAAAAACTATTG
TGACTAATTTATATAACAGTATAGCATACGGCAGAGAAAT

>Sequence 1206
CCCTTAGCGGCCCGCCCGGCAGGTACAAACAATTTTTTTTAACTAGCAGG
GCATGGTGGTTTGCCCTTTAGCCCTAGTACTTGGGAGTCTGAGGCAGG
AGCACTGCTTGAGCCAGGAGTTTGAGAATACAGTAAACTGTATCACACC
ACTACACTCCAGCCTGGGTGAGAGAACAAAACCCCTGTCTGAGAAAAAAA
AATTAACCTGAGATGCATTTCCCCCTTTTACACTAAGAAACAGACCCTT
CTTTGTTTCTCACTGGCCGCCAAAGGGAATGCTGTATGAGCATTCAGGT
GCAGATGCAGTGCATATCAGAAGACCCCG

>Sequence 1207
ACCTTGATCTCTAGCAACGAGGGAAAAATAAGAAAGATCAAGATTATTGTG
TCTAAAGAAAACTGGGAATATATATACTTGACCCGCTTCACTTGCTTACA
TTGTCTGTCTGATTCTTCCAGGCATTAATTAGAATTTGCAACTCCTAGCT
GGGCACAGTGGCTCATGCCTGTAATTCAGCACTTTGGGAGGCCGAGGCT
GGTAGATTACTTGAGGTCAGGAGTTCAAGACAAGCCTGGCCAACATGGCA
AAACCGCATCTCTACTAAAGGTACC

>Sequence 1208
GGTACCCATATTGCTAATGCTAGGATCAAGATACCACATAGCCAGAACAA
GAAGTTGAAGGTAAACATAGAATATTTTATACAGGCACTCACACCTGCCA
TTTCGAAAAGGATTAGGAATCCAGATGCCGTGAATTTAACTATTGTTA
CAGGCTTGTCCTGCAATATGCTCTGGAGCAACTTGCCCTGCAGAGATTCT
GTATCCACGGACATTTAAATATCGCAAAGGCTATCTCCAGGCCATGATGT
TCCTTTGCTGTGATCCCCGCGT

>Sequence 1209
ACGCGGGGGAGGTCTCCATTCAAGTAGGTGGCCCGGGATGAAGGCCGTGTT
GGGGCTAAACCACACTCTGGAATTCTGTGAGCAAAATTCCTCGCTGTGTGA
ACTTGAGCAAGCCATTCACCTTTCTTAAGCCATTTCTTGATATTTTACA
GAGCCTCACCAGTATTCAACGAGAACATGTAAGTGAATGCTTCACAAA

Table 2

ATGCCTGGTAAATAATAGATGCTTAGAAAATGGTAGAGAGAGAAAAAGAGC
AGTCTCTGCCCTTTAATGTACC
>Sequence 1210
GGTACATTGTGAGAACTCTGGAATTATTATTTTATTTGATTATTACTAT
ATTTTATCTGACTAGAAGCCATTTATTACCAAACCAATTTATTTCTTAGA
GTTGAAAACCGTCTGTGAGAAGCTTCTCTGGCCTGGATGGAGATCCAGCG
CTTTTATTTTATTTGAGGCAGAGTCTTGTCTGTGCGCCAGGCAGGAGTGC
AGTGGCAGCATCTCTGGTTACTGCAACCTCCACCTCCTGGGTCAAGCAA
TTCTCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGTC
>Sequence 1211
GGTACTCCTGCCAAGAGGGCGACAAGTTCAAGCTGAGTAAGGGGGAAATG
AAGGAACCTCCGCACAAGGGGCTGCCAGCTTTGTGGGGCATTCCAGAGA
ACCATGTGCTGTGAGGGCCTTCCGAGTCCATCTGTTAATCCTGTCAATTG
GAGACTTGAGAAAACAGAGCCAGAAGGGAAAAGTGATTGTCCCAAGATC
ACACAGCACTGGAGAAAGTGGATGAGGAGGGGCTGAAGAAGCTGATGGGC
AGCCTGGATGAGAACAGTGACCAGCAGGTGGACTTCC
>Sequence 1212
ACATACAGTTTACATTGTGGTAACAAAGTAGGACATGCTATGAAGGCCCT
TTGAATTTCGCTTGACAAGAATGACAGAGATCTACTAGACCCAATTTTAA
ATAATATTGCTGGTTTTGCTCAACATGAATTAATAATATGGTGGCTAATG
TGCAGATTTTACATTTGGAGAACTTTAATTTTCAGTATTAATTAGAATTT
GTTAATATTACAAATGCATTTAATGACACTTAAATTTGTACC
>Sequence 1213
GGTACCAATAAGCATACCTAGAGTTGAGATTTTGGTTTCTAAATGCCATT
CTCCAATTAAGGAATCAAAGCACCTCAGATAAATGTTAATTCAGG
GCTGGGGCAGGGAAAAGTGAAAGAGAAATCACAGAACATCCTGTAATGACAG
AAAAAAGTCACAATAAATGGTGGGATTATGTCAAAAGGACATGGGATTCA
ACTTGAAAGATCTTCCAATAGCCAAATCTGAGAAAAGTTAAGCAACAAAA
AAATAACAAATCTTATAATCTATAGAAAAAATATGAATGTATA
>Sequence 1214
CCCTTAGCGGCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTT
TAGAAATTGGCGGCAGTTTATTAGTCACAACTGCTCACAGGGAGGGAGGT
CACCACATGCCATGCGGGGTCACAGGAGAGTTGCATTTGGGAATAGAGTG
AACCAGTAGGGGCTGTGGAAGGCAGGCTTTGCAGTAACAAGAGGAAGAGG
CGATTCCTGGCTCCTCCAGATGTGACAGGCTTGTGTAATAATTTCCAG
GCTGGAGGGAAGTGAGCCACGTTGAGACCCAAGGAGGGTACCTCGGCCG
GACCACGCTAG
>Sequence 1215
ACAATTAATTGTGTTCTTGTGACCTGATGATTTTTTGAAAATTTGCTTTT
CTCTTTAAGAAATTTAAGTTTCAAGGGCCGTATTAGTTATCTAAATATT
TTGGGCTAATGTTGACTTATAAATAAATAAATAATTTAGAAATATATTCAT
GATGACAATTTTGTACTTACACTGCCTATTCTTTATTTCTTTTTTAGTT
CAAAGGTGAAATTTTGACCTTTGTATTAACAAAGCCTCAAGAAAAGAGAA
ATTCTGCCTTTTAAACATTGGTTTTCTTGCATT
>Sequence 1216
GGTACATGGAGGAAGTGGAGGTAAATCGAAACCGAGCTGGATTACTTCCG
GTCTGAATCAGATCAGTAGGACTTTGATCGTTGAACAAACGAGCCTTT
AATAGGCGGCTGCACCATCACGGATGTCTGATCCGACATCCTGGCCTGT
AACCCTATTGGGGATCTGGACTCTAGAATAGGATTGCGCTGATATCCCTA
GGGTACTTGTGCCGACGGGCAAGTTATTGGATCAGATTGATGATATAGTAC
TTGCGCTCTGACTGGTGGAGTCTTACCATGT
>Sequence 1217
GGTACCACTGTGCTCTAGCCTTGGTGACAGAGCGAGACTGTCTTAAAAAA
AAAAAAAATAAAAAAGAATTTATTAATAAATTTAAAAAATGAAAAAA
AGCTGCATGCTTGGTTTTTGTATTATTCTACATTGTTGCCATTAT
TACCAAAATATTGGGGAAAATACAACTTACAGACCAATCTCAGGAGTTAA

Table 2

TGTTACTACGAAGGCAAATGAACTATGTGTAATGAACCTGGTAGGCATTA
TTTATTGAATTATCATCATTCCATATGTCCAGCACATTTTAAATAGGAAA
GT

>Sequence 1218

GGACAATGTTAAATATCTGACTTTTCTATGATTTGGCTTTTCTGCTTGAG
TAACTATTTAAATATCTGCGTGATCTTCTTAAATTTGGGCTACTTCTAGA
ACAAAACAGAGGTATTTACAACAAACCACTTGCCACAGGGCCTTTGAACC
GTTTACCTAAGTCAAGTGAATGAAAAACATAACCAAATGCACCATGGGG
TTTATTGTTAGATAATAAAAGGCTTAAAAAGCCCCTAGACCCTAAAAATG
CCTGGGATGGATGATTGATGCTCATATGCTACTTGAGCATGTA

>Sequence 1219

GGTACCTTTTTTTTTTTTTTTTTTTCGTCAAAGTCACTATTTGGGCCCTAA
CATAATCCTGCTCAGAGCGACGGAAAAAAGGCAAGCCTTTTCAAACATAA
CTCTCTCTACAAGCCAGCTATTATGGCAAGGGAAAAAAGAAAGCATCTAG
ATAAATATCTATCAAAATTAACCTTAAAGAGAAATACTCTCTTTCCTTAAA
AGCCCTTATTTTTTAAGACACTAGAAAAATAAGTTACTATAAAAAAGTGGTG
GTCTGGGGGCTAAAAACAAAACAAAAAAATCCTCTTTTCTACATTTTTT
AGTTTTC

>Sequence 1220

GGTACAGAATTATCAACTGATTTGGTCAAGTTGCTTCCAATGCTGGTTGAT
TCCCTCATTGTGTAAACATTGACAGGTATGTGACAAATGGGAAAAAAG
TCCAAATAATAAAGTGACATATTGGTGTTCAAAAAAAAAAAAAAAAAAAG
AAAAAAGAAGTCCTTTTTTTTTTTTTTTTTTTTTTGTACTTAATAAAAAA
ACTGAGTTTATTTTACATGTATTTTGTGGNTCCCCACCTTTTCCATGT
TTGACCACCGCTACTACTTAGTCCTATCATAACATTCCATACATACTTAA
AACC

>Sequence 1221

GGTACCTGAGCCAGGCCAATCAAAGTGTTCCTCAGGAATTAGGAATTTCA
CACATAAAACCTGGAGAGATAGCACATGCTCTTTCTTTCTTTGGACTG
TGAGCTGTACCTGCCCGGGCGGCCGCTAAGGG

>Sequence 1222

ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTATTTTTTTTTTTTTTTTTT
TTTTTAACAAACCCTGTTCTTGGGTGGGTGTGGGTATAATACTAAGTTGA
GATGATATCATTTACGGGGGAAGGCCCTTTGTGAAGTAGGCCCTATTCT
CTTGTCCTTTCGTAAGGCTGGAATACCTAAACTACGTGTAAATGTAA
AGTAGTGACCAATAGAAAATAAGGTTACCTTAACTTCCTTTTTTCTGGG
GGTTCTAGGACAAAAGTATAGGCATTGCCAAGGTCAAAGAATCAA

>Sequence 1223

ACACTGAACAATTTGTTAAGATAGATCTCACCTTGTGTTCTTACTGAAAA
AAAAAAGAAAGAAAAATAGAACAGAAAAGCAATTGGATTTTAAATCTGGA
AACTCCTTCTCTTCTTACATCCAGGAAATTTGCTGTTTATTTTGAAAA
GCAAAATTTAAACCTATTTAAGGGAGAGAGAGCTCTTGTAATAATTCATTT
ATTAGTCTGGACCAATGTTATTTATAAGCTATTATTCAAATGATAAAA
AATAAATGCATAATACATTTGATGATAGAACATTTTCTTTTAA

>Sequence 1224

GGTACTTCTCAAGACCTCACTTTTATCTGTGAAATGTGGGGAAGGTTTAT
AAGTAAATGAATGAGGGGTGAGGTTGTACCATAATGCGCCTTGAAGTAAT
ATTGTGGATAGCTAAAAGCAATTTTGGTTTATAGGTTTATTCTTTGGT
TTATTTTGGTATTGATCATTCGTTGTTGGTGTATTGAAATAGTCATAAAA
TAAGATCTGTATGAATTGTATTATCTTCTGTATCTTAAGTATTAGTGTA
ATATTGTATTATGGATATATGATGCAGATTTCAGATTCATATATAGACAGT
ACCTGCCCGGGCGGCCGCTCTGAAGGGTCGATTTTCAAAAACTGCTGTC
CGTTTCTACTTGGATCCGAGACTCGAACTAAATCCTGGCGTTGTCATGGA
CATAGCTTTTTTCCCGTGTGAAAGTGTTAATCCGATGACAATTCCACACT
AACATTCTAACCCGTAAGCATATTTTTTAACAGCCTTGTATACTTGAGG
TTGTGCACCACACTCACATAAATTTCTTTAGAGCTTGGGGCCCGGGTGTC

Table 2

CAAGGGTTAAATATATAACTCTTTCCGTCTTTAATGGAACATTGCTACG
TTTCGCGTAGAAGGTTTTTATCTGTGTTAACGCGTTTATTTCTTATTAC
AAGGGCGGTGATACGGGGTATCCCAATATATGATTGTTTCCACCCTG
TATAGTAACTCTCTTTAAATTGGTTTCTGTGATGTTTCTAAAAATCTA
AAGGAGACGCCCTGTTGTGAGTTATTTTATTATGTATCCATCCCCCTTT
CTGTGTCAAATAAAAGCCGTTTCATAT
>Sequence 1225
GGTACATCATTTGATGTATGTTTTGTTTTTTAACATAAAAGGATTATA
TCCTTTTCCGCCAGCTGTTTCACTCAATACATTGTGAAAATATTTTAC
ATATGTTGCATGGGTTTCTATAACATTTGAAATGACTGCCAAATATTTCA
CTGTATGATCATCATTTAATATTATTATCAATTTTGTATATTTAAGTTAG
AATTTTCCATTACCATAAACATCATTATGAATGAGCTTTCTTGAAGTGT
ATTTTAATATACTTCCTTAGGATAAATGCTTAAAGTAATA
>Sequence 1226
ACATATACACTATGTAATTAAAAAGCGTGCAATGTGTATGTATTAATAA
ATGGTATATAAAACAAATACAATATATACAATAAAACACCTAAACGCAGAG
GCTGCTGTTATCCACAATAGTAATACCAATAGTATTAATGATGTCTATGT
AGACACAAACAAAAGCAGCGGACGTATTAATATGCAAACACACAAAAGCA
CACAAAAGCAAAGCAAAAAGCACGCCAGTAATGTTGTGGATGCAGTTTCA
AGATTTGACTTATAGAGATAAATCCAGTAGACACTGAAATAGATTTTGG
>Sequence 1227
ACCCGATATGTATGTTGAATTAAGAGGATTTTTAAAAATGACCCTTAAGT
CTTTGACATAACAGCCCCTGTCACCTTCTGTACAGTTTGTATGTGTTGT
TAATGGAATGTCTATTTCTTTAAAGAGCAGAGAACTACAGTTACAGGGGA
TACAGTGTGAGGGGTGACACATTGCTGGATTCTGAGCTCAGGCAAATCTG
TCTGTGTCTATATTAATAGAGGTCTATCTTTTCTTAATACTGAATGCAAT
GGACCATTCACACCTAAGTTATCCTTGATATGCTGGGATTACAATAA
>Sequence 1228
GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTAGAGACAGAGTCTCCCT
GTGTTGCCAGGCTGGTCTCAAACCTACGCTTGAGCAATCTTCCCCCT
TGGCCTCCCAAAGTGCTGGGATTACAAGCATGAGTCACCATGCCAGCCA
ATAATGATTTCTTGATTGAAGGAATGAATGAATTAAGGTTTCATCTTTG
GACACAAAGGCAGACAAAAGTTTGACAAAAGGCATTTTGAACCTAGGAC
CTTTATTATAATATTAGTCTAAACAGGGGGACCCATGAATAAGCATGG
>Sequence 1229
CACAGAAAAAAATCTACACCAGGTAACACTGGAGGATGCAGGGCTACAT
TTGCCACTGAAGAAACATTGTTCTCTTGCATCTGAATTCAGTGCTTTCC
AAATAGATGCGTAGATGATGAAAAATGGAGCAGCTTCTTTTATTCTTCT
TCTTTCCTCCTTGAATTCTAGTACTTTGTGAAGTGTGAGGTGTCCCTTC
CTAAGTCACAATTCACACTGATGCATACACTATAGTGAAACACTGGCTTT
AAGAAAACCTGATTAACAGAAAACCGGCAATTGTTATTTATTTAAAT
>Sequence 1230
CCCTTTGAGCGGCCCGCCCGGGCAGGTACAGGTTCTAAAAACGAAAGTATTT
GGGTAGTCCACTAGTGATATTATGTGGATGTGTAGACAATAATATTAGT
TCCTAGATTAAGGCTATATGTATAGAAGAACAAAGATTAGCTGCAAAAA
GGAGATTGTTTGAAGCGAAAACAGTGGGTATGGCAATACTGAAGTGGAA
ACTTCACAGATGGTACAGGTGGAAGGGCGCCATGAGACTGAAACACCATG
TAGTCAGTATAGAGGTGGAAGTGGAGGGGGGTATAGTGAGTTACAAA
>Sequence 1231
CCCTTTGAGCGGCCCGCCCGGGCAGGTACTCCATAATATAATCTTTAAAT
GGGCAACTTCTAAATATTGATACAACCTTAATAATAATGCTGATAGGGT
CAAAAGACAATTGTTGAAGCACTGAATTCAGTAACCTGGGTGATGGTCCA
ATTTTGCTCACTACTTCATATCTTTTATGTAGATTATTCCTATAAACATG
TTCCCTAAATTCACATCAGTTTGTAAAGTCAATGGATTAAATTATTCAA
ATGTAGCTATTTAACGGTCAGTAACAATGCCTAGAAACCTATTTATTCAT
CTGTAATATTAAGCTGAATTTGATGATCTTGAAAAATCCTTTCCAGA

Table 2

TTTACAACCTTTTATTCTAACAGTAAAAGAAATACAGAAAAAGTGTCACA
AACTTGGATGGGAAGCTAATAATTGTAAGTCACACCGAGAGATTAAGCTA
ACAAATTTCAATAACAGCAGTCATATGGGGAAATCCCCAGAACTATTTAG
AAACCAATCTTTTGAATGCTAAGAACTACNAGTAGAGCCCATTTACTTAG
AATTTTTTTCATAGAAAAATTAGGGCCTTCAAAGGTTATGCCCTTTCTTT
ATTGGAAATGGATAAAAGATGCTTGGAACTAAATTTTGGTTTGGCGAAAA
AATCTGAAAAAACTGCCCTGATAAGGATAATGGGAAAAAATGGCAATCC
TTTAAAGGCTTAGAACCAAACTGGGCTTTGGACCTAAAGTTT
>Sequence 1232
CTTACGTGGTTCGCGGCCGAGTTCATTTAAAAGGGGGATGTTATACTTTA
AAAAGGTTTAAGAAATAAATTTAAAAAGCCTTGGGAATGGTTTACGGGAA
GGGTCCGCTTACTGGGCTTTTGGCCAGGGACTTAATTTAAAACTAAAA
>Sequence 1233
CCCTTTGAGCGGCCGCGGCCGAGGTACTCCATAATATAATCTTTTAAAT
GGGCAACTTCTAAATATTGATGCAACCATTAATAATAATGCTTATAGGGT
AAAAGAAAAATTTTGAAGCACTGAATTCAGTAACCTGGGTCATGGGCCA
ATTTTGCTCACTACTTCATATGTTTTATGTAGATTATTCCTATAAACATG
TTCCCTAAATTCACATTCATTTGTAAAGACAATGGATTAAATTATTCAA
ATGTGGCTATTTAACGGCCAGTAACAATGCCTAGAAACCTATT
>Sequence 1234
GGTACAGTTTTCGGATTGCTGAGAGTGCCCCATGAGGGGGGAGAAAAA
TAAATTTCTATTTTTATTINGGATCTAGGCTAATTCATTCTTCACTTGC
CCAATTAGTATTTCCCATTGGCACCGGGTAAATCCACAATAAATGGTCTT
TTATTATGGTTCTGCAATCAATTGAAACCTTTGGGGTTTTGTTCCCCC
AAACATTTTATTTGTTAAATCCATAAAAAACCATTTTCTGGTTAAAAAAT
AAAGTCTTTTCTTTGGTAATAAAAAGCACAATCCTTTTGTAGGCAACC
ATGGAGANTTCAATAAACCTTTTCTTCCCAGGGAGACAAAAAGAAAGTAC
CCCTATGTAAAGGATGGGGATATTTGGCCTTTTGGGTCCGAAAAAAGGG
TTACCCCTTGCCCTGGGGGCCGGGCCACTGCTTTCCGAAAAAAGTGTG
CCGAAAAATTTTCCCCAAGCCAACCAACTTTGTGGCCGGGTCCCGGTTTT
AACTTTAAG
>Sequence 1235
CCCTTCGGCCGCCGCGGCCGAGGTACTCTGTAAGTCTGGAAGAACAGGTCAC
ATTTATTCAGACTTCTCCCCACAATTTTAAATCAAGCACCTCCAGTAA
CAAGTTATTTAATTAGATCGATTTTAAAGTTGACAACAGATGTATCAGATG
AGGAAAAAATTGAGCATGTGTGGTGTGATTATATAATAGAATTGGTTTCT
ATAAACCATTTATAGTATTCAACTTTTATAGTATTACTTTTTCAGATGTA
TGGATATATAGACTATTATTTACTAACTGAGGCTCTGCGAAGTGTAGTGT
ATT
>Sequence 1236
GGTACTCGGATCTATGATAGAGTAGAATAAAACCTCTTTTCGTCTACAAGC
ACAACCTTATTCAAAATTGTGTGGCAACTCACACTAGCGATCATACCTGCT
TATATTCTCCTAGTTAGTCCCTGGGGGATTATACCTTTTAAATCTTTCA
>Sequence 1237
GGTACTTCTGACTAAACTGGAATTATGAGTGAGGAAGAGAGATTACTAAA
TAAATGACTGGGGCAAGCAAAATTGATGAGGAAATTACAACTGTTTGAC
AACTTTTAAAGAGCTACTTTGAAATAACAGAAGTTCTTGATTAAATATTG
CACAATAATGGCGTAGAAAAGTATGGTTTTAACTGGGACCCTTATTTAT
GCACCTTTTAAAAAATTAATTTCTCAGTATACTCCATTAAAAATACCATTG
TTTGTTAAAAAATTTTATAGATATTACCAAGAAATATGGAAATTAAT
AAAAAATTTGTATACTTCCCCTTTCTCAATTATTAGATATTTATATGAAT
TATTATTTAATTATATACTAATATATTTTATCTCTTGTCCCCAGAGGG
CTGGGTCCGTTTTTTTTAAAAATGGTGGCAAG
>Sequence 1238
ACAAAGCTAGAAGCAGCCTGGTCCAGATGGCTATACAAACCCGAAACTGT
CTACACCCAGACTTTATTCTTCTACAACCAAAATTCCTCAAAACACACAATC

Table 2

TGAACAGTAGCAGTGAAAGGGAGTTTAAGGTGGGGGTGAAGGAGAAAGGA
GTAATATGGTTTTTTAGTAATATAGTAATTTACATTTTCAAAAAATCTTCA
GTGTTTCACTATCTTAAATGAATATTTATTCTGGTGGGCCTCCCATTCT
CTTCTCCTGTAAAAAAATGACTGTTATTAACCTCAATCTCATGTGGATT
TGGGTTTACTCACCTCAGATTGGGTAGAACATCTGTCTTCAAAGAAAA
CGAGTGACATTCTTTGCAAATCCCCTAAAGACCCGTAGGACAAGTATA
TGAAACATTTAATAAAAACTCACTTCAGGCCCACTGCTACTTTGCACTGGG
AATTAATTGTCATACTATTATGGCCCAAGTTGGGCTGACACTTGATTCT
CTCTGGAAATGGGACTAAAATTAACCTAAACCAGGAAAAACAAAGGACAT
TTGTTTTACCTACAACCAGATGGCCTTAACCTATTCAAAATTTTTTTTCCA
CTAAAAAATTGCCACAAAACCACTTATTTCTTTAAACAAAAACCTTCCTT
TTAAAGTCTTAAACTATTTTTTAAATTCCTTTAAGGGCAGATGGTTGTTT
TAGAAAAAAATTAGAATTGCACT
>Sequence 1239
CCCTTTGGCCGCCCGGGCAGGTACGCGGGGCGGTATGTGGGGCCAGAGCA
TCCGGAGGAACACAACCTCTGTGGTCTGTAGGAGCCACTATGAGGAGGG
CCCTGGGAAGAATTTGCCATTTTCAGTGGAACCAAGTGGTCGTTACTAG
CTAAGATGTGTTGTACC
>Sequence 1240
GGTACGCGGGCTACCAAACCTGCATTAAAAATTTTCGGTTGGGGCGACCTC
GGAGCAGAACCCAACTCCGAGCAGTACCATGCTATATTGGTCACTGTAG
CTCTGTAACATAGTTTGAAGTTGGGTAATGTGATTCTCTAGCTTTGTTA
GCTCTGTGTTTTCACTTAGTATTACTTTAACTATTAGGGCTCTTTTTTG
GTTCCATATAAATTGTAAAAATAAATTTTCCAGTTCTGTGAAGAATCTCA
TCGGTAGTTTGATAGGAATAACATTGAATCTGT
>Sequence 1241
CCCTTTGAGCGGCCCGCCCGGGCAGGTGGATCACTTGAGGAGTTACAGACC
AGACTGGTCAACATGGCGAAGCCCCATCTCTACTAAAAATACAAAAATTA
GCTGGGCGTGGTGGGCGTGTGCCCCCTAATAATCCCAAGTTACTTTGGGA
AAACTTGAGGGCAGGAAAAATTCGGCTTGAAACCCCGCGTAGGGTGGGAG
GTTTGCAAGTTGAGTTCAAAGAATTGGCACCAAGTGGCACCTCTCAAGCC
TGGGGCCAAAGAAGTGAAGACCTTCCAATCTTCCATATAAATATAATATA
AAATAATAAAAAATAAGAGGTAACCTTCGGGCCCCGGGTACCCACCGCCTT
AAAGAGGGCCGAAATTTCTCAGGCAACAACCTTGCCCGGGGCCCGTTAA
CTTAGGTTGGGAATTCGGAAGACCTTCGGGTTAACCCAAAAGCCTTTGG
GCGGTTAAATTCAATTGGG
>Sequence 1242
CCCTTTGAGCGGCCCGCCCGGGCAGGTGGATCACTTGAGGAGTTACAGACC
AGACTGGTCAACATGGCGAAGCCCCATCTGTACTAAAAATACAAAAATTA
GCTGGGCGTGGTGGGCGTGTGCCCCGTAGTAGTCCAGCTACTTGGGAGACT
GAAGCAGGAGAATCGCTTGAAACCCGCGAGGTGGAGGTTGCAGTGAGTCAA
GATTGCACCAAGTGCACTCCAGCCTGGGCAAGAGTGAGACTCCATCTCAA
AAAAAAAAAAAAAAAAAAGGT
>Sequence 1243
GGTACAGAATTCAGTTTCTGGGGAAAGTGAAGCATGAAGGGAATCATAGG
AAAAATTTGATTTTTGTGTATGGTGTAAGAAAAGAGTCCGATTCAATCT
TTTTGCACATGGATTATCCAGCTTTTTTCCAACACCCATGTTATTGAAAA
GAGAACTTACCTTTTTTCCCTTTTTGTGGGATTCCTTTGGTCATACCCTT
GTTTGGAAGGTGCCCTTTTCTTTTTGCTTTTCAACACTCAATTGGTCT
TCACAATAACAAAGGTTGACCCCTTGAGTTTCATCTTCCAATCCTTTCTC
TTGAATTCCAAAAACCTGTTCTCAGTTCGTTCTTAAAAATTTCCCCCGGA
GTGGAACCGTTTTTGGGTTCAACCTTGACTTGCTTGAAAACTCCCAAGAA
GAAAAAGCCTGGTTTTTGGTGGCCTTGGTGGCCCCAGACCCCTTTTCCCT
TCCCTTTTTTGTTCCT
>Sequence 1244
GGTACAAATAAAGTCTTCCAAGGGTTCAGAATAGAAAATGATCTCTTCCA

Table 2

GCTTGGGGACATTTGGGAAATTGGGATTCCTTTGGGGAAATGTACGTAAT
CAGTATATTCTGGGAAAACATAGTAGAGAATGAATAAAATAAATTGCATCG
AATTGGGAATATGTTGTCCATTCTCCCTGTAACATAATGCTATCAAGATAA
AGTAGAAATACCACATTTAGAAACAGCTGGAGTAGACAGGTCTTCATAG
GCTAGCTTGGAAACCTAATAGCTATTAATAATGAAATTGTAATTATACTC
TGGATTCTAAACAATGAACACACAGTGATCTTTTGAAGTGGCTGCTTGT
TATAAGTTGGGGATGGTCTGAATTCATTGTTGA

>Sequence 1245

GGTACAGATGTGACCTTCTTATAGTCAGTCAATGCTGGGAAGTAACAGG
CAGATGTGACTTCACTTGAGCAATTGGAGAAAGCAAAAAAGTTGCCTTA
GTCGTACCTTAGGTTTTAGATGGACAGTACTTTGCATTTTGGCTTCCCA
AATTCTAGGTAGTTGTTTCTTTGGTTGAAGAGGATGGTAACCGGTACATC
CTTCTGGGTGACCTAGGGCAAACCTAGAATGTATAGGTAATTCCTTTGT
AGGATAGCCTGGATTGGTTCAAGGGAGATGGGATCACCAGGGGTTCACA
GGTGAAAACCTTCCAACCTTTTAAATTATACTTGGATGTTCTTGGTGGGAT
GGTTTGAAAAGGTGCCAATTTTGGAGATCTTTTCAAATTGAACCATGT
TAAGAGGGGGGGACAAAAATGTTTCTTCTTGGCCTTCCCAACCCATTCA
ATG

>Sequence 1246

GGTACTTTTTTTTTTTTTTTTTTGTCTAATTACTACCTTTTATTCTAA
TGTGAACCATGGGCCCTGAAAGACTGATAACAAGCTTTGGCATGAAGCAG
AGGGGGAACCTAGGGGTTCGGCAGAAAAAGGATTTAATGGGGTGGGAAAA
ACATTTGGGCTTCTTCTTGGGGGAGATGAATGCCTGGAGGAAAAATGG
GGAAGTAGAAGTTGGTCTTCAAACCTGCCAAGGTAAAAATTAGGCCTAA
GAAAAAGGCTCAAAGGGGCCAAATAGGCTTGGGATAGGGGTAGAAGGG
ACCAGGTTCTAGCATTGGTTTCAAGCCCTGGGGGTTTCTTGGGATTGTA
ATGGGGTTTTATTCCCCCTTTATTCCCTTGGTGGCGCATTTCCCAATT
TTTCGGTATCAATTGAACCCCTTAAGTATCTTATGGGGAGACC

>Sequence 1247

CCCTTGGCCGCCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTT
TTTAGTGAaaaaaactGTAATTCTTTATTTGAAACAATGCATTTCAAAAGA
AATAAAAACCACTCAGACTTCTTAGAACATTATAAAGTCAAAAAAACGTT
GTCAAAAATTTTGGCAATTAGTAGAATAAGTATAAAAAGGGTTAATCAGA
TACCAGCCAGAATTAAGGGGTATAACCTCCAGTTCTTCAGACAGAAAAAG
AGGGACATAAATTTTTTCATTTTTTAAAAAACTTCTTTGGAGATATTATC
CTTAAATTTTTGGACACCTATTCAAAGATAAAATAATTTTTTATTTCTC
CAATGGTGGAAATTATTGGACCAAAATTAATTCCTCAAGGCTTTGGCTTG
TATCCCAAACTAGACCCTGGCAATGGGGGGCAAGGGTTCAACCCCCCAC
CAGTCAACAAAGT

>Sequence 1248

ACTATCCCTATGAGGCATAATTATAACAAGCTCCATCTGCCTACGACAAA
CAGACCTAAAAATCGCTCATTGCATACTCTTCAATCAGCCACATAGGCCCC
TCGTAGTAACAGTCCATTTCTCAATCCAAACCCCTGAAGCTTCAACCC
GGCGCAGTTTCATATCTTCAATAATCCGCCACGGGGCCCTTAACAACTCT
TCATTACTTAATTCTGCCCTTAGCAAAACTTCAAACCTTACGAAACCGCA
CTTACCAGGTTTCGGCAATCAATAAATTCCTTCTTCTCAAAGGGAACCTT
TAAAAACCTTCTAACTCCCACTAAATAAGCCTTTTTTTGAATGGAAC
TTCTTAGCCAAAGCCCTCGACTAAAAACCTCGGCCCTTACCCCCCTC
A

>Sequence 1249

GGTACTATATGTTGCTCTCTCAGTGGCAACAATGAAGTTTTTGCAATTCT
AGAAGTTGGATTTTTTTTTTAACAAAAGTCCCAAAACACCAAAAATGTAA
ACAAGATAAGAGATTAATATTGTAGTGGTGTAAITTAATTAAAGTTATAT
TTTGGGTAAITTTAACAACCTGAAGTCTTATTGTTGAAACTTATTTTTAA
CAAACTGTGCAGTTAAATTTGTATACGTATTACATACTGAAAGATGAA
CCGTTAAAAATAGCACITTAATTTGTGTTTCTTCAATATGTCTTGATAATA

Table 2

ACTTTGGTGCAATTTAATATTACCCATGTTAAGGTTGA

>Sequence 1250

TGTAAGGTCCTACAACATAAACAGAACCTGGTAAATTAAGTATTGA
AAAAATGCTATGGGGCAGAAGAAGAAATGCTTACGCTTCTGTGAAGAAGA
GAACACAGCTATGTTACACGAGGTGAATAAGAACACAGCTGCAGCTGAAT
AGAAGAAAAGGTATACGAATTGCTAAGGTGTGAACATTCTATGACTGTT
TCAGCCACTAGCAAATGTCAAACAGTCTACTCTATAATAACGCCATAGTG
ACATGACTTAAAGGTGGATCCTTCATGTGCTTTAAATCGTTAGCGCCCCCT
CTCGCGGAATTCAGAGAAGGAAGCTTGCCAGGGATTTCATATTCTGGCT
AAACTTCTCATCTTATAGGAGTGAGGCCCGATAATCTTATATAAACGAGA
TATCAAGTCAAACACTCCCTTTCCCGTTATTATTGAGAAGTTTAAATATA
CACATGTCGCAATTATCTTGGGCAAATTCGTATTAACGCTTGCCCTTCTG
TCAATTAAGAGAAATATGGAGTGTCTCCATTGGTAAATGGAAGATAAGCT
CTATTATCAGCTTTCAATTGGCTGGAAAACATTTCAACGGTAGTATCTGG
TACCCTGGCCCGGGCGGTCTGAGAGGCTGGATATCTGCCCATCTGGG
CGGGTCCGGTACCTATGTGGAATCTCTGGCTATGGTCGCAAATGCTTGGG
ATGTCAATTAATGGGCCCAAATCTTGGTTTCTTGTGTAAATACGCGTGA
TATCTCGTATAACTAGTCGCCCCGCCAAATTTGCGAACTCCTGCAGCCAT
TAGAGGGTATCCGCTAGGGGTGCCTATATTGATGAAGCTGCCTTCCATTA
ATATGCGCTGCGGCTGACTTGGCTCGCTTTTCAGTTCGAAACTCTGGATT
GCCCGTATTCATTAAGAATCGGGCATACGCGCGGTGGAGGGCTGTTCCG
GATTG

>Sequence 1251

ACGCGGGCAACAGTTAAATCAACAAAACCTGCTCGCCAGAACACTACGAGC
CACAGCTTAAACTCAAAGGACCTGGCGGTGCTTCATATCCCTCTAGAGG
AGCCTGTTCTGTAATCAATAAACCCCGATCAACCTCACCACCTCTTGCTC
AGCCTATATACCGCCATCTTCAGCAAACCTGATGAAGGCTACAAAGTAA
GCGCAAGTACC

>Sequence 1252

ACCTATTATTATTTCAAATTTAAAACTTCTTCTTTTTTAAGAGATAGGG
TATCACTATGTTGCCAGGCTGATCTTGAACCTCTTGGCCTCAGATGATCC
TCCTGGGTTCAGGTGATTCTTCTGCCTCAGCCTCCCTCTTATTTGCTTTA
CAAGTCTGCTTCAGGGTTACCTTCCCTGACCACTGCTGCCTCCCTCCCA
GCATTTGCCAGGGACTGTCATTGCCTTAGTTTATTTTTCTGTTTTGTTT
TTTTTTTGTCTTTTTTGTTTTTTTTTTGAGACAGCGTCTTAGTCTGTGCC
AAGGCTGGAGTGCAGTGGCGCAATCAAAGCTTGCTGCAGC

>Sequence 1253

GGTACTTTTTTTTTTTTTTTTTTTTTTTTACTTTAGTAGAGATGG
GGTTTTACCATGTTGGCCAGGCTGGTCTTGAACTCCTGACCTCAGGTGA
TCCACACGCTTCAGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACC
ACGCCCAGCCTAAATATTTCTTTATAGCAATGCAAGGATGGCCTAACACA
CTGCCTAAATCAAAATTGCTATTTCACTTCAAGGGTATTCATTACCTGACT
AGCTTTTTTGGGTGCATTTGAACATAATGTAAATTTATGGCTGATCAAA
TGTCATTACTATGAAGATACTCCCTATGAGCTCACAGAGTCAGGACAT

>Sequence 1254

ACAGTCTTTTATCTTGGGATAAAATGGCTAGATGAGTATGGACAGGGAGG
CAGGGCAGATACAGTCCTTGCTTCTGGTTTTAGAGTTCTTCTGAACCACA
ATCAACTTCTCCAAACACCCACCTTTGTCTTCTACCACAATAGGGGTCAG
ATCTATTGCTGACTTTTCTCCACCTTCTCTACATCAGCAGCACCTAGGG
GAAGAAATGTTATTGAGACTATACCTAAAGGAAGAACATTCTCCTCTGTT
GCACACTATTATCCAATTGGATAGACCCACATCTAAATGTCTGCAATTAC
AGTAATGTCAGCTGGGCATGGTGGCTCATGCCTGTAATCCCAGCATCTTG
GGA

>Sequence 1255

GGTACTTTTTTTTTTTTTTTTTTTTTTCTTTTTTAATTTTTTTTTTTT
TTTAGAATAACAAAAAATTTTTTACTAAAACATAAAATTTCCAGAGGTTT

Table 2

CCAGACAAGCCATACAAAAGGGGCACAAGCTTTTTTGGAGGGGGGAATCT
ACACTTGACAGCAATGTTATTAGGGAGGGCTGGGATGTTTGGTTAATGTT
CCCATTTAGGGTCCAACAATAAAGCCTGTTCAATTTACAGTGTCCAAATGA
AGTTTGACTTGGCTTGAGCATTCTCTGAAGACCTGGGTTGGGTGGTTTAA
ACCCATGCAATTTGGATCCCCAAAAAAGGGGAAAGGGGCCCCCTGGTT
CCTGGCG

>Sequence 1256

GGTACTGGTTTTTTTTTTTTTTTTTTTTTTTAGGTTTCCTTTTAAAT
GAGCTCACCCTTTAAACAAAAAAGCAGGGTTGATGATTTTAAAAAAG
GAAGTGGAAATAAAAAATCTCAAAGCTATTTGAGTTCTCGTCTGTCCCT
AGCAGTCTTTCTTCAGCTCACTTGGCTCTCTAGATCCACTGTGGTTGGCA
GTATGACCAGAATCATGGAATTTGCTAGAACTGTGGAAGCTTTTACTCCT
GCAGTAAGCACAGATCGCACTGCCTCAATAACTTGGTATTGAGCACGTAT
TTTGCAAAAGCTACTTTTCCTAGTTTTTAGTATTACTTTTCATGTTTTAAA
AATG

>Sequence 1257

GGTACTTTTTTTTTTTTTTTTTTTTTTTTGGGTTTCAAACCTCAGT
TTGAAAATGAGAGGAAAAACAAAATAAAATGATTTACATAATCAAAGGATT
AACTGATACAGACTTTTATTCTAAATGCTCACAAGCACAGAAACCAACAA
GAAATCAGATCTTGAACGAATTTATAATGATTCTTCCAGGAAGCACCGCG
GCAGCCACATAAGGCGCTGTTACACCTGGCTGTGTCTGCCAAGTTAGTC
CTCAAAGAGAAAAACAAGGAGGAAAAAGACAAAAAACAACCACCA
AACCAGTGTGCTTAAAACACAGATCACCATCAGAGGTTTATTTACAGC
AAGG

>Sequence 1258

GGTACCTTGCTGGTTAATATAACTAAGATTTTGCCTTTATTGGGTTAGGT
ATCTTTTTTTTATTAGCACCTGATAGCTGTCTTCTACTGAGTAAAGAA
TTATAACTTTTAGATGTCACAGAAAATTAGAGTATTTATTGTCAAAAAA
AAAAAAAAAAAAAGTT

>Sequence 1259

ACTTCAACAATTCCAAAAGTTTTTGAAGTAAAGCAAACTCACTAATG
ATTATGAAGTGAACATAACCAACAGGCTGTTTGGAGAAAAACATACCTC
TTCCTTCAAGTAAGTTTGCCATGCCATACCATATCTGTGAGTGGTATTCTG
GAATGGCCAAATGGCCCTGGTAGGACTATGGGTCCTGAAGTCGTGCTGCC
TGGCTCTGGCCACATCCCTGTGGTGCTTTTCCATCCTGATCTACAGATAT
TCAGAACTGCAGGGAGTTCCTTTTAGTCCTGGCAATCTGAACCTGATTTT
TGCTCATCCCCAGAATAGCTGCATAAAAAATGTGCAGCAGGAG

>Sequence 1260

ACTGGTGGGATTGTTAGACCATCCCCAAAAAGGAAGTGCACCTTGGAGTCT
GTGGAGCTCTCAAGAATATCTCTTTTGGACGTGACCAGGATAACAAGATT
GCCGTAAAAAAGTGTGATGGTGTGCCTGCCCTGTGCGATTGCTTCGAAA
GGCTCGTGATATGGACCTTACTGAAGTTATTACCGGTGAGTTCTAGGCCT
AAGGAAAATTGCTAAGTCAGTGTACTCTCTAGTGATGTTGAGAACTAGA
GGGATTTCCAGACCTTTTACTTTTGATGAAAGGTTGTGAACTGGTGGCTG
TGGGTCAAATCCATCTCACAGATTTGTTTGGATCACACAGCA

>Sequence 1261

GGTACTTTTTTTTTTTTTTTTTTTTTTCTTTTGCCTCCTCTGACTAT
ATTTTCAAATAGTCTGTCTTCAAGGTCAGTAATCTTTCTTCTGCATGAT
CAACTCTGCTATTTAAAGGACTCTGATGCATTCTTTCAGTATGTGAACTGCT
TTTTTCAGCTCCAGAATTTCTGCTTCATTCTTTTAAATTCAATCTCTGTT
AAATGTATCTGTGTAATTTCTGAATTCCTTCTCTTTGTTATCTTGAATTT
CTCTGAGTTTCTCCTACTATTTTGAATTCGTCTGAAAGGTCACAATCTTG
TTTCTTAAGGATTGGGCCCTGGTAACTTATTTAAATCATTGGTGAGGTA
ATG

>Sequence 1262

GGTACACTCCATCAAGCCTGGTTCCTAGGATGCTGGACTTCTAGCTTAGT

Table 2

GAGAATGCAGTATACTTTTTGAAAACCTTCGTGCAGGAATCCCTCAAATGC
TGTAAGTAGGAATGGGTCAGTGAAGTTCAAACGACTTTTCCTTGAGGGAG
TATTTTAATCGGACAAGGGAACCTTTTTCTTTTGGGCAATGGCCAACAG
GACTGAGAAGCCAGAGAGCTTGACCTGAGCCATCTCAGCCGTGAGAGTA
ACAGTCCTAGGAAAATAGATGGGGGCTGGGGGTAAGGAAATGTGCTGAAG
ACAGAGCTATTCTGGA
>Sequence 1263
GGTACTCTTTTTTTTTTTTTTTTTTTTTAGGGGTTTTCTTTGTAGAG
ACAGGGTCTCACTGTATTGCGCCAGGCTGGTCTTGAAGTCAATGGGCTCAA
GTGATCCTCCTGCCTTGGGCTCATGAAGTGCTGGGATTACAGGTGTGAGT
CACCATGACTGACCTATATTTAATTTTTTAAAGATTAGACTGGTGTAGC
TGTAATAGTTTGAATACCTCTCTGATAGGTGCTAGCTTATCGTACTC
TTAGTGCTTCTTGCAATTTGCATAGTCAAACCTTGATACTTTTTGTGAAC
TTGAAAGCATGC
>Sequence 1264
ACTTTGTGTTTAAAGAGAAATTCCTAAACTGGATATATGTGGCAGGCTGAA
AGCACTGTGAGTTGAAGTCAAGGGGAGAGGTCCAGGCGCAGTGGGCTCATG
CCTGTAATCCCAGCGCTTTGGGAGGCCAGGCGGGAGGGTTGCTTGAGGC
CAGAAGTTTGAGACCAACTTGGGCAACATAGCAAGACCTCGTCTCTACAA
AAGATCTAAAATTAATATTAATAAAATAAGGTTCTTGCCGGGACC
ACGCTAAGGGCG
>Sequence 1265
ACCTTATTGTTAAAGTGAGTCAGATAAATCTTCAATTCCTGGCTATTTGG
GCAATTGAATCATCATGGACTGTATAATGCAATCAGATTATTTGTTTCT
AGACATCCTTGAATTACACCAAAGAATGAAATTTAGTTGTGGTTAAAT
TATTTATTTATTTTCATGCATTCATTTTATTTCCCTTAAGGTCTGGATGAG
ACTTCTTTGGGGAGCCTCTAAAAAAATTTTCACTGGGGGCCACGTGGGT
CATTAGAAGCCAGAGCTCTCCTCCAGGCTCCTTCCAGTGCCTAAAGGGG
CTATAGGAAACATAGATCCAGCCAGGGGCTT
>Sequence 1266
CCCTTAGCGGCCCGCCGGGCAGGTAAGTCAACACTGATTTGAGAAGAAAAG
TGTGATTGCTTACCTGTGATTTTGGAGACCTATATAGTGAAGGTTTGTG
CCACTTTTTAGTTTCTCAAACATGCAGAAGTAATGAGGTTTGACAGAGA
CATGAGACTATAAGATGTCTGTCTATTGCTGCCAACCATGGAAAAGATGTT
AAGATGTCCAGCTGCCATAAAATCATATTTTCAAAGTGTGAGACACGAA
GAATATCTTTCTCTTATTTGGAAATATGCTGAAGATAGGAATAAAGAAAA
GGATTACAGTAAATGGAGACGAGAGATACAGTAAAGCAGAAATGTATAT
GCC
>Sequence 1267
GGTACTTTTTTTTTTTTTTTTTTTTTGGGTTCTGTAACTTTTATTTTA
CACTTATGGGGCACTGCCAACTCAGGTGCCTTGGCTTCTTGACTCATTTT
TTACAAAGGTTACTTTGTTTGAAGATGGTATGTTAAGGTTAGATAATT
TGAAAAATATTTCTTGTCTAGGTAATACCCACAGTTTATCTTTACCCAG
ATCCTATAAAATTAATAATGGCAACGTTGTACAGCCCTTTTCAGAAAAA
TCTTATGGACCTTTTCTTGGAATTTTTAATAAAAAATGGCAATTTTTTT
TTTCAATTATTGAAAAAGAAAAACAAAAAGCCATTTTTTGGTAAAAAAA
TAGGACCATATTTGGTTCTTTAACAACCAAAAAATGGGGTTGTTGAAAC
CCCTATTTGGGCCTTTTATTATTTTATTAAGGGGCCATTATTATTG
>Sequence 1268
ACGCGGGGGGCTTTGCAGATGTGATTAAGCAAAGGACCCAGATGGGGAG
ATTATTTTGAATTACCTAGGTGGACTCCACGTATCACAAGGGTCAGAA
CCAAAGAGATGTGAGAATGAAAAGCACAAGTGAGAGCAGTGGGATAGCCA
AATTTTAAGAGGGTTGTGAGCCAGAGAATATAGGCCGCTCTAGAAGCTG
CAGAAGGCCGGGGTGGACAGAGTCTCCCTGCGAACCTCCAGAAGCAGCAC
AACCTGCCCCACTCACGGTAGACTCTCGATCTCCGGGCTGTAGAATAATA
CATCTGTGCTATTTAAGCCACTGTTGTGATTGTCTGTTACAGAAGTTA

Table 2

TAGAA

>Sequence 1269

GGTACATTTAAAAGGTGATGCTAATACTTTAAAATGTTTAAGATATAGAT
TTAAAAAGCATTGTAAATTGTATACTGCAATGTCGTCTAACATGGCATT
GGAACAAGGACATAATGTTTAAACATTTAAAGTTGCAAATTGTTAACT
TAACCATATGGATTAGTGTAATGGCATAACGTTGACCCAAATTTTTTGT
TTAAAGTTTAAAAATTACCATAAAACTTATTTAACAGCTGTACTTAACT
GGGAATTTAATGGTCCTAATTATAGACAAAAATACTTTGGAATATCTTGG
CATTTTCCACAAACAATTTAACTTGGGCAGTTGCCTTTTTTTTAGCTTT
GGCTTTTGGAGGTGGCCTTTTTGGATGTTGGTAATGGGCCTAATTTAAA
TAAACGTTCCCGACTAGATTTTTTGTCTTGTGGTTCTAACATA

>Sequence 1270

GGTACTGCAAGCAACAGTTACTGCGACGTGAGCAGCAACGAAGTATCCTC
TCCTGAAATTATTAGGCAGCACTTGGGTCAACCACTCCGCCGTGACCCAT
ACCAAAGCCGTCGCCTTGGGCACCGAATAAACACAGACGACTATCCAGCG
ACCAAGATCAGAGCCAGACACCGGAAACCCCTGCCACACCACTAAGTTTG
TTGCACAGGAGACTTCAGTGGAACAGGGCCTCCAATTCCTCAACTGCAT
TTTAAACCAGCTCACACAAAGGGACGGGATTTAACCGTAATTAGGTAA
CAACTACAACCCATTAGTTACCTTGCCCCGGGGCGGTGCGCTTTAGGGC
CGATATTTCCAGCACCACCTTGGTCGGGCCGTTACTAA

>Sequence 1271

GGTACAATTTTAGTCAAGGGATTGTTTGATACTCTTTAAGTTCACTGCC
AGGCCTACCCTTATCTCTGTCGAGGAGGAGTTCCTGTAATGAGAGG
TTTTTAAGACGTCTTTGTTCTGGGATGAATCATAGGGAATGACTGCCT
GGAGCTCAGGATATTAACTGAGTGGTGTCAAATATTTCCAGGATCAAAT
CGACAATGCCATTGTGTTCTTGCCCGGGCTGGCCGCTCCGAAAGGGCCG
AATTTCCAGCACACTTGGCGGCCCGTTACCTAGTGGATTCCCAAGCTTCT
GGTTCCAAATCTTTGGCGTTAATTCATGGTCAATAGCCTGTTTCCTTG
TGTGGAATAATTGTTTATCCCGCTCACC

>Sequence 1272

GGTACTCAATGTTCACATTAACATAGGAAAGGTTATATATACACTATACAC
TTCAGCCTTGAAATGTGGACCCAAAAACATTCTATTTTTCAGTAATCCA
TTGAATTCGGTGAGGGTCCCAACCCCTCAAATCCTAATTTATCACAGCAC
AAGCCCTTCCTTGGCTGCCAAGCGCTGGCGGAGAACTTTGTCTTGCTGCA
GCTCTTCATGAATTGGATGCCAGAGTTTCGTGATGATCCTTTCAATGTTA
ATAGCATAGACTTGATGTGTAGGGATGACTTCCCTTTGCACCTGCTAAG
GTTGATAAGAATCGGACCTGCACCTTGGCGGCCGCTCTAAAGGGCTAATTC
TAGAACACTGGCTGTT

>Sequence 1273

ACTTTTTTTTTTATTTTTTTTCTTTTTCTTTTTATTTTTTTTTTTTT
TTTTTTTTTAATTTTTTTTAAACAAACCCCTAAATCAAAAAACCCCC
AAAAAAAAAAAAATAACCTTTCCCAAAACCCCCCTTCCCAAAACCCC
CCGGGAAAAAAAAACCCCAAGCCAAAACCCCAACCCCGATTCCCCCT
TTGCCCCCCCCCAAAACCCCCCGCAAAAAACAACTTTTTTTTTTT
TCTAAACCCCCCGGCCCAAAAAAAAAACCCCTTTTAAAAACAAAAAT
TTACCCAAACCCCCATAACCCCTTCTCAAATCCCAACAATTCAAAAA
ACCCAAAC

>Sequence 1274

GGTACTACAAACAACAGAAATTTATTGTCTCTCAGTTCTGGAGGCTAGAA
GTCCAGAATAAGGTATTAGTAGGTTTGGTTCTTTCTGAGGGCTGTGAAGC
AGAATCTGTTCCATCCCTCTCTTCTTGTCTTCTATGTTCTATGTCTGTC
TTTGTTCAAATTTCCCTTTATATAAGGATAGCAATCATATTGGATTAGG
CCCAGTCCTAATGACCAGATCTTAACATTTGCAAAGGCCCTATTTCTCAC
TAAGGTCGTATTTACAGGTATAAAGGGTGTAGACTTTAACATCTTTTTGG
GGAAGACACAGTTCAATCCGTAACAGATGGTTAGTCCTTTCTCTCTCTAA
AT

Table 2

>Sequence 1275

CCCCTAACCGTGGTCCCCGGCCGAGGTCCATTTAAAAGGGGTGCTTAAT
CCTTTAAAAGGTTTTAAATATTTGATTTAAAAGCCCTTGAAAATTGG
TTTCCTGGAATGGGCCTTTTACAAGGGCATTGACCAGGGACATTAATGG
TAAAAACAATATAAAGTTGGCAAATTTGTTTTACACTTTAACATTATTTA
TAAGTGAAATGGGTCAAACGTTGACCCAAATTTTTGTTTTTAAAGGTT
TAAAAAATATCCCAAAAAAATTTTTTACC CGGGGGTCATAAACCTTGG
GAATTTTTATTGTCCTTATATATGGACAAAAAATCTTTTTGGTTACACT
GGTATTTTCCACCCAAATAATTTTTCTTTTTGCGGTGGGCCACTTTTTTG
TGTTTTTTAGAATTTTATGAAGGATGTCTCTTTTTTAGTGAGTGACCAT
ATTCCTTTTTTAAAAAAAACCCTTTCCTCTTATTTTGATTATAATA
TCTACTTGTTTGTTCATTATATATAACAAACC

>Sequence 1276

ACTATAAAAGGTTGAGTAAAAACAGGAAAGCGTGCTATAAGTTCAAATCT
GTTGTATTACCCTAAATTAGATTAAACCAACCTGAATTATAGTAGATTTT
TCAATAGATGAGGAACTGAAAAATACTATGTAAATATCTTCCAAATGC
TTTTTATACTTTTTTATTTGTAATTTGGTCTATCTAAATGTTCTGTTAG
CTTAACCTTAATGGGCGTTATTGGATTCAATGACTAACGTTTCTCAGTA
TTGTAATGCTTGAAATATTTGAAAGAAAAATGTTGTTTTTAGTTGAAA
CTGGTATATATAATTCAGTGCTTGGCAGGTTAGTATATTTTATGCATTT
TT

>Sequence 1277

GGTACCAACACAATTGTTAATTTCTCACAGGCTCAAGGCATTCTGGGAA
GCTATACAGGGGACAGGAAGCATTGTTGGGAGCCTAAGGGGAGCCAGTTT
GGAAGAGACAGCATTCTCTGGCTAGGACAGGTGGTGGCGGTGGCCGGGT
TTAAGGTTCTCCAAGGGACCCTTTGCAGATGCCGGGGCCCTGTTTATTCT
GAGCACGTGAAGATGAGTCACATAGCTTGGTGGGAATGGCACGTGTGGAG
CAAAGCCCTACACACACAATGGTGGTGTTAACCAGCTTTATAGCGACTG
TGTTTGAGGGGGACTGGTACATGTCACTAGGGGAACATGGTATAGGTGCA
CCTGCTT

>Sequence 1278

GGTACTAAAACTAAAACTGAGCAGTTTAAAAACATTCATTTAAAGGGATAT
CTAATGTGTTTATTATTAACATAAATAATGTTTTATGAAAAATGTAACCT
TAGTTTTCCAAAAACAAAAATGTTTAGGGCAAGAGTAACATTATTTTACAT
TATTGCATCTCAGTGAAAAATAAATGGCAACAAAAATCTTATATCTGCTT
CTGCAGTTAATCTGTTTCAATTTGTTTTGTTTGAAGTATATGAAGGAAATC
TGTCCTCACACAGTTGTGTAGTGGAAAAAGGGGGACTATTGTAACAGGCT
GTGCACATAATTGTGGATGATTTTCTTTGATACAACAACAAACTTGGGG
GATG

>Sequence 1279

ACAATGTGATTTATCAATTAATTAAATTTGAATTCATGGAATGAAATAT
AAGTCAACAAGTATGACAGTTTCGCTTTGTTTATTATGGAAGAATCATT
ATAATTTGATAATTAAATGGTCCTGAATGGTTAGCCATGTTCTCCGCATT
TAAATAAATAGTATAAACATAAATGAAAAATTAAAGTAATTTCAACGTG
ATAGAGACCGCTATTTTTAGTTCAGGTAGAGTTCCAACCTAATGGTAAT
TAAGATTCCAGATCCGAAAGATGTCATGTGAATATTGCTCTGAAAAACCA
AAATTAAGCTTTCTTAAAGATGCTGTGTAGGGCTGAGAGGTTTTTCACT
TGTACCTCG

>Sequence 1280

GGTACTTTTTTTTTTTTTTTTTTTTTTTTGGCAAGGCAATTTAATAAGAT
TTGAGCATAGATATTAACCTTAGCATGGACAGAGAACTTATTTCTTGGG
GGACTGGCATAGTGAAAGAACAGAATCAGTATGACCTGAGAGAGCAGAAA
AACTTTACAACAGCTAATACTACTTGCTACATTGCTGTGCTTTAAGATT
TGAGGGAGGAGGTACTAGAGCCTGCCTGAGATCCTTTGAGGTCAGTTTT
GAATTTAAGCCTTTCTTTTTTTTTCTTTTATTAATTTGAAATTTTAAAA
TTATATTTTTGGGTGTTCTAATTATCACTTAAAAATTTCTAATTTTTCTT

Table 2

TTTTACTTTTATACTTTTT

>Sequence 1281

ACCTCTGACTTTCTAACAAATTACCATAAAGGAAGAATATTTTTCGTCTA
CTATTGTTAGAACACCTTAGAACCATCAAAAATATAATTACATGGCTAAT
AGAAAAAAAAGAGCAGTTTAAAAATATGTTTTATGTAACCTATTTTCATT
GTTTTTCATTTTGTGTTGCCGAATAGTAGTTGTTCTAAGTAAATACAGG
TCTCAATTTCACTATGAATAAAAAAAAAAAAAAGGAAAAAAAAAAAAAGT
ACC

>Sequence 1282

GGTACTCTTTCTTATTTTCTTAATCAATACAGCTAAAGGTTTGTCAATAT
TGTTGATCTTTTTAAAGAACTAAAAATTTGTTTTGTTGATTTCCTTTATT
TTTTTTTTCTGTTTTATTTATCACCCTCTTATTTTAGTATTTCCCTTCC
TTCTGGTAGCTTTGGGTTTAGTTTGTCTTAAGTTCTTAGGTGTAAAGT
TACGCTGTTGAAATGAGATCTTCTTATTTAATGTATGCATTTATAGCTCT
AAATTTTCTCTTAGCACTGTTTCACTGCATGCTCTAAGTTTTGATAT

>Sequence 1283

GGTACTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTAAATTA AAAACCGG
GACTTGGTGGGTGCCCCAAGCTGGGCTTGAACCTCTGGGCTTAAACAATC
ATACTGGTTTGGCCACCCAAAGCACTGGGATTACCGGGCTGAACCAACAC
ACCCAGCTTTTAAACCACAGTATTTTATAGGGCAATATTACACACCTGGC
CCAAGGACTTACAGGGGGGGGAAAAGCTTGGACTTTTGGCTTTTTTTTTT
TTTGGACCCAAGCACCTGGAACCTCCATTTCCTTCCTTCAATTACGTTT
AAAATC

>Sequence 1284

GGTACTCACAAATAACAAGACAAATTTGACCTGTTCAATAAATAGAAATG
AAGTGGCTAAAAATGTTTAAATGGAAGTGGAACAGTCGTCTTCTTGT
ACTTGGTCTCTACCTCAGATAATCTTCTTTGAGCTTTTGAGTAGCTTCT
CCTTTTTCACTTAGTTCTACATGTATTCTATGCAGTGAGGTTTCAGATGC
AGACAATCTTGACTGAAGCTGTTGACAATCTAGGTCTTTTGTGAAGGG
TTGCCTGAATATTCTTTTTACTCACAGATTCTTCATTATGTTTCTCCT

>Sequence 1285

CCCTTAGCTTGGTTCGCGGCCGAGGTACTTTTTAATCTTATTATTAACCTA
ACCCCTGTGGTGGTGTGGCTACATTCTTTGAGTTTAGAAAACGAGATAAA
GAATTGCTCATATCTTCCCAAATGTGTAGTATAAAAAGAATGCTGTCTCCT
GGTTGTTTTTTGTAGAATATGGAAGTCCCTGCAGTAAGTAGGCAACATGC
TACCCTTCTATTCAACACAGCACTAGAACAAGGCAAGTGGGACCTTTGTC
GACACATGATTCTGATTTCTTAAAGTCATTGGCTCTGGAGAATCTGAGACA
CCTGCATCCACACCCACAGCTCAGGTTAGCTGCAAAAGTTACACATCTTC
TCTAGGCCATACCCACGCTAGCATCTTTCTCTAATGGT

>Sequence 1286

ACACAGGATGTGATCAACAAAGTTCTATTTTACAGGAGTATGATCCTGTC
GATACCTTGCCGTAGGTTATGTAACATGATTGGAGCGCAACCAGCTGTTT
TCTTGACAGATCGAGAGTGAGGGGTATTTGTGACATTACACAGCATCA
GGAGCCTGGTGCCTCATCAGGTGTAAGTTCTTATAACCACTCTTGGCAAA
TTTATTAAGACAGGAACACAGTCAATCTGTAACCTCATAGTAGCTCTACG
TTTACTTGAATTCCACAATCCCTAACCCATCTGTCCCTGGCAGAAAGAAG
GAAAGATGACATGCATGGACAGTGAACAGAAAGGGATGAAAGCCAGGATT
CCTGGGATGAACAGACAGTGGCAATTAGGATGTGAAGACAGGTCACAACC
TATTACTATGTCTAAAAACGACCAGAGCAGAGAGCCAGAAAGAATAAGCC
TGAAGTCACCTCCACTCAAAAGCAGCCAACTCCCTCAAAGGAGTAACTT
TTAAACCTGGATCTAAACCTGAAGGGGCTAAAAAGTGTCTGTTTCTGAG
TTTTCTTTCTTAAGCTCATGAAGCAGATGAACCTACATTTTATTGCCA
TTTCATATCAAAATGTGGGTGTTATAACCTTAGGATTTCAACAGACTTTTG
AAGTGTGGACTAAATATTGTCCTTCGCCGCGACACGCTAAGGCGAATTCA
ACAACCTGGCGCGGTACTGTGGACCGAGCTCGTACCA

>Sequence 1287

Table 2

GGTACATTCCAGTCTTTATCTGAATACAAGCGTTTTGCTTTTATTTCCA
GTTTCTTGGACCAGAACAAATAAAATACATAAGACATCGTTTCTATATGGT
CATATACTATATAGAATAAAGAATTGTTATGTAAATTATTAATGAGTAT
ACAGACCTTTACATAAAAACTAAGGTACTTTTTTTTTTTTTTTTTGTTTT
TT
GATTTTGTTTTTTGTGTTGATTGTGGAGTAGGAGAAATAGTGAAATTTGA
AGGTAGAGG

>Sequence 1288

GGTACCTTGTGCAGACCGCTACCTCATCCTGTGACTTAGAATGCCTAAC
CTCCTGGGAATACAGACCAGTAGGTCTCAGCCTTATTTTACCCAGCCCTT
GCTACATTCAAGAAGGAATCACTCTGGTTCTAATGCCTCCGACAGAATGG
TCAGATTCTCAGACTCTAAAGCAAAGAAGACTATGTTCAGTGACAGCAAG
ACTGTTGAAGAAAAATAAACTCGAATGGCCTTGAGGAGCTATTATCAATA
AAAACAGTATAACTTATAATTATCTGTTGTGTTACAATGAAGTATATCAT
CACTGCT

>Sequence 1289

ACTAAGGTTGTTAGCCCTCTGCTGGAAGAGAGTGTATTAGTCCATTTTCA
CACTGCTGATAAAGACATACCCGAGACTGGGTAATTGAGAAAAAGAGGTT
TAATGGACTCATAGTTCCATGTGGCTGGGGAGGCCTCACAAATCATGGTGG
AAGGTGAAAGGCACATCTTACATGTTGGCAGGCAAGAGAGAAATGAGAGC
CAAGCAAAAGGGGAAACCCCTTATGAAATCATCAGATCTCGTTAGACTTA
TCCACTACCACAAGAACAGTGTGGGGGAAAGCACCTCCATGATTCA

>Sequence 1290

CCCTTTGAGCGGCCCGCCCGGGCAGGTACATAGGCTCTGCCTATCTCTGTG
GCATGGATCCTACATCCACAACCTACACATTATTTATTTATTTATTTTGG
CAAATCCCAATTCCCCAGAAATGGTCCTCACCTCATTGACATATGCAGGA
AGAGCCAAGGGGAAACAGCAACTTGGAAATGACTATGACAGACTAACAC
AAAGGACAAGAAATGGCTCTCATGGGATGTAGGTGGAAGGAGAGGCCTCT
GGCATTGGCAGCTCCCTACCAGAGGTGTCTGCCCTCTGTTCTCTTGGGG
TAAGGGAGCCACTGGGCAGGAGTAGGCAG

>Sequence 1291

CCCTTTGAGCGGCCCGCCCGGGCAGGTACATAAGCTCTGCCTATCTCTGCG
GCATGGATCCTACATCCACAACCTACACATTATTTATTTATTTATTTTGG
CAAATCCCAATTCCCCAAATATGGTCCTCACCTCATTGACATATGCAGGA
AGAGCCAAGGGGAAACAGCAACTTGGAAATGACTATGACAGACTAACAC
AAAAGACAAGAAATGGCTCTCATGGAATGTAGGTGGAAGGAGAGGCCCTT
GGCATTGGCAGCTCCCTACCAGAGGTGTCTGCCCTCTGATCTCTTGGGG
TAAGGGAGCCACTGGTCAAGAAATAGGCAGC

>Sequence 1292

GGTACATTTTTTCTCTTTTTTTTTTTTTTTTTTTAATTCTGAGATT
CCCCAAGCTGTGGATTCTTCCTACTCCTTAAGAAAAAACTTTGGGTTTA
TTTAGCATCTACACTTTTGTCAGTTGTGTCGCTGTTTCCACCCATTTTA
TTATACTCTTAAAAGATGTAATTGTTGTCAATTTGAACAGTTAAACATCT
TTGGGTATAAAAAAGAACCCCAATGGTTATGTTATGCTTTGTAAATTTGT
TTTTTTGGTTTACCTAAATAAACTTTCAGCTAATCATATAAGGAAAGAG
ACTGTCTTTTTT

>Sequence 1293

GGTACTACCTGTTTAAGGACATACCAGAAAAAAGTATTGATTTTATCC
TATGCTAAACAGTGTGTGATAACTTTGTATCACTTGGAGAATGCTCCT
GAAATTATGCAACACTACTAGATAACCCCTGGATCAAAGAGGAAATCAAA
AGGGAAATTTCACTGTATTGTAAAGAGAGGAGACTTTTATGCCAAAT
ACAGTAAGTCTTTAGTCAGATAAAATTAATAATCTTAAATTCATTCAT
GTTAAAGAAGAAAGACAATTAAGAAATCTGACACTAATCAGAAGAAATTA
GAAAACGAATAAGTAAAGAATCTGAAAAGGAGAAAAATAAAA

>Sequence 1294

GGTACAGTGGGAGAGTGAGGTGGGAGAAGAAGAGTGTCTGGTTTTGTGTG

Tabl 2

CTTCACTGTCTTCTTGGCATGAGCTATGTTTTAATTGGAAAGAGTAGGG
CCGCTTCAGAGCCTCCTACAAAAGTGCTAGGGCCAAAGACTTTCTTAGCT
TGAACATTTGTATCTGACTAAAATTGACTTGGGCAGCGCTTTCTGGAAAA
TGACTTTGTTTTTGGCCTTTTTCTGGTGGGTGGCCCTTATGAGTCGTTCT
TCGGTTTTTCTTTCAACAATTTGCCCCCTTGAAAAATGAATCCACCAT
GGTGTGCAACCTGTCTTTTTTTTTTGGACTAGGCCCAATATCACCTGAT
CAATGGTAATTTTTTCTCTTTTGGGGGGCCTTCTTTCAATGAAAC
CCAAATTCCTTTGGCCACCTCCAACAATTTCTTTGGGGCCCGGCCCTTT
CCTTGG

>Sequence 1295

ACGCGGGCTCTCTCCATGGGTCTGTGTTCCAGAAAGCTATGACTCTTTAA
TGCATCTCTTAGTTTTTTCCTTATTTCTTTATTCTTAGTATCACAGTCC
ATGATATCCACTGTCCTTGGGGCGCCCAATTCATTGTGCAAAAGCATTAA
AATCAAAAATACCCTATTTGTTATTTTTTAAAAAGTAAAGTGGGGATGAC
AAGTCAAGTGGAAATTTATCCCAAAAGAGTGGGGATTACTGTGACTATCT
GAGGAGTTATACTTGATTTTTTTGTCTGATTTTAATGGACTGTAGGATCT

>Sequence 1296

ACAATGCACATGCCGAAAGACCTTAATTTTGGATGTGATGAAATGTTTTTC
TATGCCTGGAATAAATGCCTTTCTTTGGGATGTAACCTTGCTTAAATAGTA
TTTGCTCCTCATCTCTGTGAGTTACTTTAATTTTGTCTCTGAAAGTAAG
CTATGATATTCTGGCTTTACTAGTGGTGACTCATCTATCTGGGTAAGAA
AGACTACATACTCATTTTGGATGTATTTTGATTTTAAAGTTTGTAAGTGG
TCCACTATTTTAAAAATATTGTAGAGTGCTGATTACTTCCATTTGGGCCAG
TGTAGCACCTGTGTTATCAGGTAGGTAGATTGGATANTTGAATTGGA
ATATTAAAATCTATAATAAACCAATGGTTTTACAAATGCCTTTATAAATC
TAACATTGCGCTTCACTAGATAGAACTTTCTGAAAGTGCTCCTGTCTC
TACTTGGTGTATAAAAAGGGATGACATTTCTTACAGACCAANTATATTGTT
CGTTACTAGGATATTATCTGTGATCATCGTCCTCGTTCGTCACAAGGAA
AAGAATTCCATTGTTTAAATGAAGAACTATGTGGATTAGAAGAGNATAAAG
ACAACCGTCACAGGGGTCGCATTAGTAAATGAAATGAGACATGGAGCAT
ATTTAAAATGTCAGAAGATGTGTGAAATGTAAATCCATGACTACTCGGTG
GTCGACTTCCGTCGTTGTAATATCCACATACTGTAGTGGACAAGTTTAT
CATAGCAGAACAGTGACGGAAATAGTCTTCGAGTCTCAGTGAGTAGCTAA
ATATCGCACCTTGTATCGAACATGGAGAACTCATGATCAACTAGGATG
AAATATTATCGTTGGTCATTGAAGGGACACTACATATTGAGATGCATGAT
ACG

>Sequence 1297

GGTACATTTAAAAGGTGATGCTAATACTTTAAAATGTTTAAAGATATAGAT
TAAAAAAGCATTGTAAATTGTATACTGCAGTGTCTGCTACATGGCATTGG
ACAGGACATAATGTAAACATAAAAGTGCAATTTGTTACACTTACATATTG
ATAGTGAATGGCTACCTGACCAATTTTGTCTCAAGTTAATTTCTAAAA
CTATTTTCAAGTGTCTACTGGATTTATGCCATATTACACATTTTGATATTAT
ATACCTAAATATTACTGGCATATTTTTTGCTTTTTTTTGTGGCTTCAT
ATAGTTTACATTT

>Sequence 1298

CCCTTCGGCCGCCCGGGCAGGTACGCGGGCTTCCTACTTCCACCAACCCC
TCTTGCAGAGACTGCTCCATTCCAGTAAAAGGTGAAGGTTCAACTGGAGA
CCTCCAAAGTTGGCTGGGCCTACGGTTTGGGGTAGGCAATTGCTGGATGA
GCACAGAGAGGGAAAGATTTCATGCCATGGTGATAATAAAAAGGCCACC
TGGGGTATGATATTGGGGACTAACGCTTGTTATTTCCCAACGCTTTGGGAG
GGCCAAGGTGGGCGGATCACGAGGTTAGTTTTTCTAAACAGTTTAGGT
CAACAATTGTGTAACCCTGTATTTCTTATGTTGCTAAAAAAAATAA
T

>Sequence 1299

GGTACTAAACGTGATGAAAAATATGCCAGACCTGGCCGGGCCTGGTGGCT
CAACGCCTGTAATCCCTGCACTTTGGGAGGCCGAGGCAGGTGGATCACGA

Tabl 2

GATCAGGAGATTGAGACCATCCCGGCTAACACAGTGAAACCCTGTCTCTA
CTAAAAATACAGAAGAAAAAGAAAAAAAAAAAAAAAAAGGTTCTTTGTTT
ACTGCAGTGTCTGCTACATGGCATTGGACAGGACATAATGTAAACATAA
AAATGCAATTGTTACACTTACATATGATAGTGAATGGCAACGTGACCAAT
TTTTG

>Sequence 1300

ACATACAAAAAATCATTAACATATATTTCAAGAGTAGGAAATGGGAA
CTGGTGTTAAACTCTTATAACATATGTCACTGTCTTAAGGGACAGTGTT
TAAAAACGCATACCTGGCCGGGCGCGGTGGCTCATGCCTGTAATCCCATC
ACTTTTGGGAGTGCCGAGGCTCGGCTGATCACAAGGGTCAGGAGAATCGA
GACCATCTCTGGTTTACACAGATGAAACCTGAGTCTCTACTAGAAATTAC
AGAAAATAATAAAAAATAAAATGTCTATTGGACTGAAAACAACACTAAGG
TGCGATTTCAGTTCACTGGGCGGTACTTTTTT

>Sequence 1301

ACATTAAAAAGGTGATGCTAATACTTTAAATGTTTAAGATATAGATTTA
AAAAGCATTGTAAATTGTATACTGTCAGTGTCTGCTACATGGCATTGGACA
GGACATAATGTAAACATAAAAGTGCAATTGTTTACACTTACATATGATT
GTGAATGGCAACGTGACCCATTTTTGTCTGAAGTTAAATACCAAAAACT
ATTTCACTGGTCTCTGGATTTATGTCTATATTGAAAATCTTGGTTACTGT
ATTCCAACTTTTCTTGGCATAGCATATTTGATTTTGTGTTTGTGTGCTT
TTGAGAATATGGACTATT

>Sequence 1302

CCCTTGAGCGGCCCGCCCGGCGAGGTAGGGCGCGCAGCAGCACTCGCCAAA
GTCGTGCGGAGATGCGGCAGGCAAGGCACAGAGGAGCAAAAGTGCCGCACA
GACAGACAGGCATGTCGTTGCAGCAGTCCGTGAGACCTGTGTGCCAGTCA
CTGAGCTGGGTCTGGTAGCAGCTGGTGGTGGCGCACTGGGGCTGACTGGT
CACAGGGTAGGACATAGCTTTGCCTTTCACGTTGTCGTGCATCTCAAACT
GCATCTTGCTGGCCCTGAGGAGGTGGCGTTGGGGACGGCAGAAGTGGCTG
TGGCAACAGTGGCAGAGTCTGTCCAAGGGACGCTGGATACTGCAGGATCG
CGATGGCAGTGA

>Sequence 1303

GGTACTCAAAAAACAAAAAATGGAGTATGTCCTGTTGGTAGAAAAATTT
GAGCAACAAAAATAAATAAGTAGTATAGGATTATGACCCCAAGTATAAAA
TAACCATCTATGAGTCCATACATATATAAATAAATGATTGAATAAATATA
TAAACGGAGAAGAAAAAAGACTATCCATAGCAGAAGAATTCCAAATAAT
TTTATAGACAGCTCCCTTTAAGAAAAACAGACCTACTGAGTGTGGTCTAC
AATTAATGCTCGCGT

>Sequence 1304

GTGCGAAATCGTAATGCGTTAACATCTGGGGCGCCTAATGCGTAGACGTA
CCTTCATGAGTTACGCCTGGCGTGGCCTTACGAGTTACCTAATTCAAATT
TATTTGCGCTCGCCTTCATTTGATCAATTTCCATACGCGAAACCTGTAG
CGCCATCTTTATTTAAGAAATCTTCCAATCCCCGGGAAAAGCCGTTAGC
TTATTTGGGCATTTATCCCGATACCTCGGTTATCTTTACTCCCTAACACT
CTGCCCTTCCGGTTTCGTCAAGCAGTATTAGTTTACTTCAGAGCGCGTAT
TTCGGTTTACCTCGAAATCAGGGAATTCCACCGCAAAAACTTTTATCC
AATAGGCCTCCAAAGGCCCTAAAAACCTAAAAAGGCCTGTTTATATGTCTC
TTTC

>Sequence 1305

ACACTGAAAACTGGACATTATAACATTAATTTTATTAGCTCTCTGGGAGT
GAGCTACATGATGTTGTGCACTGAAATTACCCAAATGTTCTCGCCTTCTC
TTTCCTGGATGAGCTTCAGAAGGAGTTCATTACTACTTATAACATGATGA
AGACAAATACTGCTGTGACACCATACTGTTTCATTGAATTTGATAACTTC
ATTAGAGGACCAAGCAGCGATATAATAATCCCAGGTCTCTTTCAACAAA
GATAAATCTTTCTGACATGCAGACGGAATCAAGCTGAGGCCTCCTTATC
AAATTTCCATGTGCGAACTGGGGTCAGCCAAATGGAGTCACATCAGCATTT
TCTGTTGACTGTAAAGGTGCTGGTAAGATTTCTTCTGCTCACCAGCGACT

Table 2

GGAACCAGCAACTCTGTCAGGGATTGTAGGATTTATCCTTAGTCTTTTAT
GTGGAGCTCTGAATTTAATTCGAGGCTTTCATGCTATAGAAAGGCTCCTG
CAAAATGATGGGGAAGATTTTAAATACATCATTGGCATTCTTCTGGAAC
CACAGCCTGCCTTTACCAAGTAAGTTTTCTTTCCTTTTAAGAAACACTTA
CCATTATTGTTTACTTTAAGGATCAAGTCTAACAATTGGGCATTTTAAAT
AAATTTTAAAACTCCAAAAAAGGGACCTGGGCGGAACCCG
CTTAAGGGAATTC

>Sequence 1306

GGTACACCAGTGGAGGACACGAATTCTATACCTGTAGGACAGTGCATGGA
GAAAAACCTAATGCCGGCTGTCCCTCAAAAGCCTGGGGCCAGTGCCTGGG
CTGTCACCTCATCCATGCTATCAGTCTACTTTCCCTCTTAGCCACAGAAA
GCCCTGAAGAAAGTGGCATAAAATGACCTGGCTGGGCACAGTGGCTCAT
GCCATTATCCCGGCACTTTGGGAGGCCGAGGTGGGCAGATCACCTGAGG
TCAGGAGTTCAAGACCAGTCTGGCCAACATGATGAAACCCGGTCTCTACT
AAAAATACAAAAATTAGCCGGGCATGATGGTGGGCGCCTGTAACCCACAGC
TACTCANGAAAGTGAGGCANGAAAAATCTCTTGAACCCAGGAGACGGAAGT
TGCAGTGAGCTGAGATCGCATCATTGGACTCCAGCCTCAGCGAGAACAGC
GTTGAATTTCCCTTTGTTGAACTGGCTTTTCATGGTCTTAACCATTTCT
CTCTTCAAAATGGTTCTATGGATATTTTTTTCCTTTTGAGGTTGGACCTT
TTAATCTACTTGGTTTCCCTGGTTGGTGCAAAGTGACCTGGCCGGGG
CGCCCGGTTTAAAGGGCGAAATTCCAACACACTGGGCGGCCGGTTCTAAG
GGATCCCACCTTGGTTCCCAACTTGGCGGTATAAAGGGCATACCGTGTCC
TGGGTGAAAAATGTTTCCCTCACCATTACCG

>Sequence 1307

GGTACCCTTGTACAAATATACCATCATCATCAGGTCTGAATGGGTTTCC
TCTACCCCGACACCCTGATATGCTAAATCCAAGTTCTGGATCCTTTT
CAACCCTCACTCGAATCTCTTGTGTTTGCCAGTTCATGGCCTTGCTAGGA
GAACAATGGGGCTGTGTATATGGAGACTGGTGGGCCACTTTCAGCATCAA
GTAATCAATTAGTTGTCTCTAGAGGGATGCCTTGCCACAGATGCCTGAG
GGGGGTGATGTATTTGACTATAATTTGCCTGAGGCCTGAGAGGCTGGCCC
ATCTGTCCATTACTCAAAGGCATCTAAGAAAAACATGAAGTATCTTAAAA
TGACCAATAATAATGTCTTATTTCAAATATTTGGATTCTTCTTGGAGCA
TTACAAAAGCACTAGAGTTTTCACATTCTAATTAAGTCAAACAATACCAT
GCCACTTACTATTTTCTATAATTTTAAACTTAAAGAAATAAGCTATT
AATGTCTTAATTCTAAGTTTCTGAGTGCTTGTGTTACTCACTTTT
TAAGCTTTTCAATGGAAGTACCTGCCCCGGCGCCGCTTCAAAAGGGCG

>Sequence 1308

TTTATTCGCCCTTATCGTGGTCGCGGCCGAGGTACTTTGGGGTTTTTTTT
TTTTTTTTTTGGGTACAGGAGTCTGACTGGGAAAAACCCTGAGCTACAA
AAGCAAGATTTTACTGAAATTAATTTTACAGACAGACTGGAGATCAC
AGGTCACTGAAAAGTCAATTTCACTGAACAGAGCTAAGGATCTAGGATAAA
TTGTAATAACAGCAAAGTGAAATTTTTTAAAGAAGAGCAAAACTCAAAG
TCAAAACATCACATACTCTTATGCCTTTGAAAAAGAAATAATAAAATAG
AAATTTGCCTCCATCAAAATTATAACTATTTCTGAATTCAGGGAAAAG
ACAGTGTTATTAAGGAATTAATTAATATATCAAATTTCTACTCTATTA
TAAACATACCAAGAAAATGAAACAAAAAATTAATTAACAAATTAATTTGG
GCTACCCGAAAAAGAAAATCCCTTCAGGTGTCACACACACACGCACCCAC
ACCACGGCAAAACAAAAAATTAACCATTTTATCTTTTCCCAATTAATTT
GGGTGGTTTTGGGCTTGGTTTAACTACATAAACCGGGAGGGAATGCCAAT
TTACAGGGGGGATCAAAATTTGGCCCCCACCATGCGGGTGGGGTGGCCCC
TTTTTTTTTCCAAGGGATAAAGATTACAGGTGGTGGACCTTTTGGTTTTT
ATTATAGAAAAGAGGGCCCTTTTGGGCCATTGGGGAAGGGCAAAAAAAT
TGGGGGGGTGGGCTGCTTT

>Sequence 1309

ACTTTTTTTTTTTTTTTTTTTTTTCTTTCTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTAAAAAACCCAAACCCCTTTTTNTTTTAA

Table 2

ACCCAAGGGGTTAAGTCTTATTAATTCAACCCCTTTTAAAAAACTGGAT
TTAAAAAGGTTATTAATAAAAAAAAAATTGGACCCGTTTGAATAAAAAAAAA
AAAAAACCGGTTGGGAAATTGCTTATTGAAACGAACCTGGGCAATTTT
TAATAAAACCTGGCCAAAGGGGAGAAGGAATTTTAATTTAATTTTCA
AAAAACCAAGACCTTGGGCGGGAACAACCTTAGGGGAAATTCAACAAA
ATGGGGGGCGGTAATTAGGGAATCCAACCTGGGACCAAGTTGGGGGAAA
TAAGGGAAAAAGGGGTTCTTGGGGGAAAAATGTTATTCGCTTAAAAATTCA
CAAAAAAAAAAGACCCGGAACAAAAAGGGTAACCCGGGGGGGCAATG
GGGGAGCCTACCTCCATTTATTTGGGTGGGCTCTATGGCCCTTTTCAAG
GGGGAAAAAACTTGTGGGGCCACTTGTTTTATAAAATCGGCCAACCCCGG
GAAAAAGGGGTTTTGCTTTTTGGGCCTTTTCTTTCTTGATAAAAAAT
TGTTGGCCTGGAAGTTGGGTGGGGGAAAGGTTAATTTTACTAAAGGGG
GAAACCGGTTTTCCAAAAATTGGGGAAACCCGGAAAAAAATTGTTAAA
>Sequence 1310
CCCTTCCAGCGGCCNCCCCGGCAGGTACATACCCTTGTAAGGATAATTCA
TCTCTAATTGAGAGGGGAGCTGACCTTCTGCTTCTTTAATCCCAGATA
CCGATTGCCAAGGGATCGTTTGACTCAGACTAGTGAGAGGTGTGCAGAT
GACATCCTTACACTCTGGTATCATGCTATATGGTTGTTGCATCCAGTTGT
ATAGGGAATGGCTGAGCATATGCATAAATTAGCGTCACTGTATGACAACTA
TCTATATAATGGTTTAAATTATACTTGGACGTCGACCCTGCATATACACTA
TATATTTCTTGGAGCTATCTTAACTGCGAAGAAATTGTAAATTTGAGAC
GTCTCTCATGAAACATATTGAGATATGTCGATAATGGAACATGTATTGTT
TCCTCGTTGTTGGTATAAAATATGCACACTGAGCTCAAGCGCATGTAACA
CTAAATATGCAATTGGTAAGTTATGAATCTCTGTTGTCCATATATAATAT
ATACATGAGTGGAGTGTACAAGTGGGTTCTCTCTGTGTGACACCTAGC
ACACTTATATGCACGTGGATATATACGTACATATATATGTCAACAGAT
GCGCATATAAGACATATATACCTAGGTGATANGTCTATGCATAGAGTTTG
AGAGAGTCACAGTACATCACTTGTGACATATGCAGTACGAGTGTATACAC
ATATATATGGTTGCACATGATGAGATCTAAGACTATATGGTACTTTACAT
ATGTACGTGCGGATAAGTCGACACTCATGNTGGTGATTATGTAGTGTGT
TATATGTCTACTTACACATATGTGACTAGATGTATACACTGACTGTAAGC
TCCTCAATACATGTGAGTAGTGACACTCTATCGTGTGCGTAGTACACTA
CGTCTCTATATGTGGTCTGTTATGTATCTTCTGTACATATAGGTCGC
GGTGCGCGTTATATCTTACGTGTGTGATATACCGNAGCACTCGTGAGATA
CGCAATGGCATTGGTGTGCGTGACATATCATTTGTGACTTATGTAAAGNTA
GATATTACGTGTGGTGTGATAAAACANTCGATATGTCTCAATGTGTCTAG
TCACTATTGATACGACACACGACATGTCTGGTGCGCGATGATAAATGACA
TATTATGTTCTATATAANACATCTCGTAGCACTACGTCATGATTGACATG
CGAGT
>Sequence 1311
ACAAACTAAAATTATGGGAGAAGAACTATGAGTGAAACGATGAGAAAAA
CCTAATGCATGATGTAGAACTGAGTGGTGTTAATAGCAGAGCACTGGAGG
GAAGGGCCACAAAACCTCTTACCCCAAGGTCTAGAATCATTCTAGAATCA
TCCTACAAGCCTAGTTTTATGAGATTACGCCCTATTTTATTTCTTGCTC
TTGGAATTATATGAAATTACGAATTTCTGTGTGTTGTCAGCTGTAATAGA
ATACCCTGGAATTTTATTTACTTTTAAATTTGTTTATTTATTTACTTA
TGTGCCATCTTCTCATGAAAAAGAGGCAGTATGTTAAAAAGTTTGAGTTCA
GATTTTCTGATGTAGATAAATAAGCTAAAGAAGGCAGGGTGAAGTGTGAT
ATATGAGAAATTTCCAGAGCAGGGTATTCGTAACCTGTAAGTATTTAGTCC
AAGTTCCTCTCCCAACACATTTTACACTAGAATAAGATTGAAAGGCCAG
ATGTGGTGGCTCAGCCTGAAATCACTTTGGGAGGCCAAGGCAAGTGGAT
GGCTTGAGCCAGGAGTTCAAGACCAGCCTGGGCTACATGGCGGAACCCNC
ATCTCTACAAAAAAATACAATAAAAGGTAACCTGGGCATGGTGGTGTGTGC
CTGTATTCCCAACTACTTGGGAGGCTAAAGTGGGAGGATCACTTGGACCA
AGCCAGGTCAAGGCTGCATGGAACCATGCTTGTAACCTCGGCCGGACACGCT
AAGGCCAA

Table 2

>Sequence 1312

ACAGTAAGCCAAGATTGTGCCACTGCACTCCAGCCTGGTGACAGAGCGAG
ACTCTGTCTAAAAAAATAAATAAATAATAGAGGTGAATGTCTGCATTAG
GATCAAGACAAGAAGAAGACAGACAATCACTTTGGAATTCTGAGACTACC
TCCAAGAATCATCCACGGAAGGATGTCAGCCATTTAACCAGGGCTACGGA
TCAAAAAGGAAAAAATACAGTCAGTGGACAAGTAGAAGAGTCTCCTGAAA
AATATCCGTATTGAAAAGGCAGCAGGAGTTGATAGAAAACATAACTAAA
AAAGTAGAAGACACTGTTAAATTTGAATCTGGATCCTATAT

>Sequence 1313

GGTACTTTTTTTTTTTTTTTTTTTTTTGGTNATTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAAAGGGCAATTTTAAA
AAAAAATGTAAATTTGCCCGGTAACCCCAAGGGAAGTCCCTGACCC
CCCCAAAAAACCAAGGCTTCCCTTTCCCAAAATTTACCCGTTTCCAA
AAACCAAGTTTTTAAACCTTTGAATTTTAAACCCCTTCTAACCGGAA
AAATTTTTTCAATCCCTTACCCCAATTTAATATAACCCAAAATTATTT
TTTCTAAATAAAAAATTACCCCCCAATTTAAGTTTTTTAGCCAAAA
TTGAACCAAAATTAACCCCGGGTTCTAAAACCCCAATATCCTGTTTTGT
ACCCATCCAATCAAGGTCCCTGCCCGGGCGGCCCTTCTAAAGGGCCAATT
CCCCCCCCCTGGCCGCCCTTCTGTGGATCCACCTTTGGCCCAACCTT
GGCATAAACAAGGCCATAACCTTTTCTTGGGAAAATTTTATCCCCCA
CATTTCCCCCACTTACTGCCCCGAACCATAAAATGTAAACCCCGGGGGC
CCCAATAAGGGGCCCCCCCCCATTTATTGGCGTGGCCCCCTCTCCCC
TTTTCCACAGGGGAAACCTTTCTGTCCTTCTTTATTAATAATACCCCC
CACACCCCGAAAGAGCCGGTTACGGTTATTGGCCCCCTTTCCGTCTTC
CTCTACAAGACT

>Sequence 1314

CCCTTGAGCGGCCGCCCGGGCAGGTACCTTCTTAGAAACCTAGACTCCAC
AGAACACTGTTTGACAACCACTGCAGTAGAACATAATATCAAGATTCT
ATGAGTGGGTTTCTTTCTTCAATTTTACATGTTGTAGAATAACATGCATA
ATCAAAGCTAATAACTGTGTTTTCTTTACTCTTTATTTGCCTCTAAA
GACATCCACACATAGTGGTGAACCTGATTTTAAATGCGTTTTAAATAACAA
GCATTGAAAAATATTAATAATTGTAGTTACTAAAAGTATTTCTCTTTGCG
ATTCTCTTATCTGTGTTTCCAGACCGGTTGGAGGTGACAGATCAGAATG
CTCTGGTCAAGAGAATGAATATGAGGATGAGGAATAATAAACTCTCTTG
GCAAGCACTTAAATGTTCTGAAATTTGTATAAGACATTTATTATATTTT
TTCTTTACAGAGCTTTAGTGCAATTTTAAAGTTATGGTTTTTGGAGTTTT
TCCCTTTTTTTTGGGATAACCTAACATTGGTTTGGAAATGATTGTGTGCAT
GAATTTGGGAGATTGTATTAACAAAACTATCAGAATGTTTAAAGACTTT
TTGCCGTGTATGAAGAGTGCTAGAAAATGCAAAGTGCCATATTTCCCTA
ACCTTCAAATGTGGAACCTTGATTCAATGGTGAATAATTTTCATCATAG
TGAAATGTTGGTTCAAAATAATTCTACACTTGCAATTGGAATGTTGTGC
TTTTATATAAAGAGACTGGTTGT

>Sequence 1315

CCCTTTGCGGCCGCCCGGGCAGGTACATTTGGTGAGTTTGAGACCAGCC
TGGGCAACACAGTGAGACCCTGTCTCTAAAAGCATTAAAGCATTAACTCT
CGCATTTTCGATAGGGCTATGTAGCTTTTAAAGTAAGCAATGTTAGAATGAG
TTGTAGAGTTTTATTTTTGTGAATATAGTGAGTGACAGATGGCAATTACA
TGAGGATATTTGAACGAAGGTACC

>Sequence 1316

GGTACCAAAGACACTTATTATTCTAACATGCATCAAGTAAAGTAAACAA
GGAGAGAGGCTGCGGTGTGTGGGTAGGGGATGCAGGAGAAGCTGTGTAAG
GTAGTGGACAGC

>Sequence 1317

ACTTNATGTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTACCCTGAGTCAGAAAAATTTTTTAAATAGTTACAAAATTTTTTT
TTTTTTTTTTTTTACAGAATCAGTTTAAATAGCGGGGGATTCTCCATA

Table 2

ATTATCAAAATTTTTTCTTGGGGTTTGGCTAAGGGGGGCTGAAATC
AACAAAAGGCCTTGGACTGTTGGCTCAAAAATTATTCTAAAAAGCCCCC
CTGTTGATATTGGCATGCTTAGCCCTTATGAAATGACCCCTTCTTAAA
AAAAAAAAAAAAAAGTTCCTTGGGCGGGACCACCTTGGGGCGAAT
-5'-3'

>Sequence 1318

CCCTAGCGGCGGCCCGGGCAGGTACTACTTTGTTTTTTTTTTTTTG
GATCAATAAGTTTATTATGTTGCATACCAATAGTTACACAAGCATTA
AAAACACATGCACACGTGTTTATTATACCATACATACAAACATACATACA
ACTTAATATTACAAAGCACATACAAGCACATACAAACATATAAAACAACA
ACAACACTAATTTAACATACATACAATACTTACAGCTTACGTTTTTGGCG
TTTAGCAGTTGTAGAGGTAGATGAGGCGGTGGGTGTAGCTTTCCGTTTTC
CTAATGTAAATTTTGGTTTGGCCATTAACTCGTCTGTAGTAAAAATTTG
CGTCCTAAAGGAAACTGATCAGGTCTGCAGAAAACTTTTCCTTTAAATA
TACTGCCCAAAAAAGAGATTTTTTAAAGGGGATCTTCTTTAGGTGCTGGAA
GTGTATTGTTTGACAAGATATGCGCTGGGATGTTTACAAAACCTTAAGTA
TCTTTTAAAGGGGCTCTCGGGGGAGGTGTAAACCAAAATTTTCAGACTTC
CAAAATAGTGAATGCATAAAATGTTTTTTTATTATAACGTTTTTCAGTT
AATGTTATTTTCAAAATTTGTAAAAAAACTGTAAAAATTTTTTCATTCTAT
GGTGGAGGTACTATGGGCCGCAACCTCTTAAGGCTAATTTAGCAAACTTG
AGGCCTTTCTAAATTTGTCGAATTAGGTCTCTAATCTTGTATAAATTAT
ATATATCTGAATG

>Sequence 1319

GGTACATGAAACATCAGTGTGACAGTTAATATTAATGTCAACTTGATT
GGATTGAAGGCTGTAAAGCTTGTCTGGGTGTGTCAGTGAGGGCGTTG
CTAGAGAAGACTAACATTTGAGTCAGTGGACTGGGAGAGGAAGACCCACC
CTCAATATGGGTGGGCACCATCCACTCAGCTGCCAGCGAGGCTGGAACAA
AACAGGAGGAAAAAGGTGGGATAGGTGACTTGTCTGAGTCTTCCAGCTTTC
ATCTTTCTCCCCTGCTGGATGGCTCCTGCCCTTGACATCAGACGCCAGGT
TCITTGGCCTTTGGACTCTCAGACTTACACCAGCGTTTGGCGAGGGCTC
TTGGGCCCTTTGGCCACAGACTGAATGCTCTACAGTTGGCTTCCCTACT
TTTGAGGCCTTTGGACTCGGACTGGGCCACTACTAGCTTCCTTCTCTC
AGCTTGCACGTGGCCCTATAATGGGCCTTACCTTGTGAACATGTGAGCCA
ATTCTACTTAACAAACGCCCTTTATACATACATATATCTTAACTAGTTCT
GTCCCTCTGGAGAACCCTATACACTCGATAAAATGTCAATAAAATTTTAA
ATAT

>Sequence 1320

[illegible]

>Sequence 1321

[illegible]

Table 2

AAAAAATAATTTTTGAAAAAAAAAAAAAAAAAATTTCAAAAAATGGAGA
GGTTCTTTAAAAAATACTATTTTTTTTTTTTTAAAAA
AAAAAAAAAACCCCCCTCATTTTTTAAGAAAAATTGGGGGGAAAAA
AACCCCGAAAAAACAATACTTTATTTAAAAACATCAAAAAACCGGG
GAGGTAAAGAAAAATTTTATAAAAAAGACCAAAAAATTTTTAAAAA
AGAAACCACAAAAATTTATATAAAAAATATAAAAAAGGATCTTCTN

>Sequence 1322

GGTACAGAGCTTCTTCCTATTAAGTGCCTAACTATAGGCAAACTTTGGT
GTTCCCACTAAAACACAAGAGCCTCACACAATTAGGAAAAAATACTAAA
AGAAACAAGGAACTGAGAATGGAAGTTAGTGAAATCTCTGCATTTGGG
GAGTTGTCACTAACTCCAGAGCCAGCATAGTTCCATGGAGCCCTGAAG
GGAGGGGACCTCCTGCCACAAAGAGTTTCGTCCAGACGAGTCGTAGCAG
TGGGTGTAACAGCATTGGGGAAGAAGTCAATGTCTGAAAAGTAATTCCT
CCAGGTTTCATCATGATTCTACGGGAAGAGAAAGAGACTACAATTAGCAC
CTCTAGCCATGGGGCAGGAAAGGGGGAGGAAGGGACAGGAATGCTTTCT
GGTCTCCTTAAGGGAACAGGGTTCTACAGGT

>Sequence 1323

ACTTT
TT
TT
ATTTTTAAAAAACTTTCCCAATTGGGGTTTTTTAAGGGAAAAA
AAAAAAGGGAAATTCCTTAAAAAATTTTACCCCCCCCCCTTCCAA
AAAAAATAATTTTTTAAAAAAGGGAACTTTTTTTTTAAAAA
AAAAAATAATTTTTTGGTTATTTTTGGGAAAGGGGGGGAAAAA
AATTTGGGGGGTTGAAAATTTAAATGGGGTTTTAAGGGGAGGGTTACCT
TGGGGGGGGGGGGGAAAAACCCCAAAAAATTTTTTTTTAAAAA
AAAGCCCAATTTGGGCCTTTGGGCTAAAAGGGGCCACCTCTCCTTAA
AAAAAATTTCTTCTTAAAAAATAATTTCAAAAAAACGTTTCTAA
AAAAGAAGGTTGTTGGATAAAAAATAAGCGCAAACCTCAAAAAATTT
GGGGGAAACTN

>Sequence 1324

GGTACTTGGTTTAGTTATGGCTGTTTTTGCCTCTAACACTTTTATTTA
AAAAGAAATTAATAAGGTTATTGGGATCAAAGATATAGGCTTTTGT
ACTTTGAATGATTTTTGTAATTCAGAATATGCACTTGTTATTTAGTTCT
TATTTTTATAATTATGGTAGAGTTCATCTAATTACCTATAAATCCCTG
GAGAAAGGTGGCCCCATATACTTTATTTCTTGGTTATATGTATAAAAT
CAGTAGGCAATGTAAAAATGTTTTGTGTGAATTTATGTGAGTTATAAT
CTAATCTATGTCAATATTCACCTCAGATTACCACATGAAAGCTCAGTCA
CCAACTATGCCTCATCTGAAATACCCACTGATTAAATCAGTTGACAACC
AGCTCCTATCGTACCTGCCCGGGCGGCCGCTAAGG

>Sequence 1325

GGTACTTATTTTATTTTTTTGTTTTGAGGCAAAAGGTAACGTGAAAA
GCAGGCATGGCATATAAGCAAGCTTTTTTAAAGGCTGAGTGACTTATGT
GCTGATAGAGGAAGGATAGGAGGAAAGGAAATATAGTGAAAAGGAACAGA
GAGGAATAATAAGCTGGCAAGTCACAGACAACATAATTAGACTATCAAA
AGAAAAATTGGAAGAAAGGCATGGACAGGAATAAAGACCTCCTTCTAAAG
CAAGGTAGGGAGAGCAACTCGATGTAGATTGAAGAGAAAAAGGAAAGAA
AATGAATGTTTCAATTTGATGGCCTATGATTATCTGGGTCATGTAAAGG
CAAAGTAACATGTTCAAGTGATGAAATTGGGTAACCTTAGGATAATGATG
ACAGTTCATACAACCAATTCTGAGAATAGAAGAGAACTGACTATATGA
ATAGAAGGATTTTAGAGACTTTACGACTCAGCCGAGTTTAAATTAATAT
TGGTAGGCATTGAGTCAATAAGGGTATACATTTTTTCCGACAGCTTTAG
CCCTTTATGAAAATAGAGCCTAAGAAAAACCCCAACGATGGGTAAC
ACCTGTGAATCTGGTTAGAACTGTTAGAAAGAACTTCCTGCAAAAGTTGG
TAGTAAATGCAAAATTTAATCAGGTAAATGTCCAACATTGAATGGATAT
GCTTAAACCACACCGTAAATTTTTGAAAATGTAAACTTATTTAGAAAATA

Table 2

ATTTAATTTTTAAGGGATT

>Sequence 1326

ACGCGGGATATTTATTTACAAAACACTTCATTATTTATAAAGAATTTACT
AACAGTTTATCTTATTTATACCCATACATCTGCTACTTTGGGAGGCCCTT
TACATAGAAAAACAGCATTCTTTTGGCCAAATATGACCAAATTACTTTTAT
TTATAATTTTTGATTTATGTTTCAGCTAGATCTAAAAAGCATCTGAAGGA
ATTTACAATGAAAGATACCTATGCAATAACATTAGGATAATCTTTGACA
TTTTGGAAAAATAAGAATTGAGGAAAAAAGTGATCTTTCAAGTAGATGC
AAAGCATTATAATGACTGACACTTGTATCTAACTCCAGTCTTACAGATAA
CTAAGGCCAAAAAGCTAAATAAACAATATGTAACCTCTAACATTTGGTAAA
AGGAAGTATACTGGTCTGTAGCAGAGACAACTTTTTTTAGAATTGAAG
TCTGAAACAAACAAAAGCAATTCAATGTCAATAGACATTAAGCAACATAA
TAGACAAACATCTCCTAAGGGAACATTTGTTACAGCTGCTCCTTTCCTGA
ACTGTGCTTTGGAAGATAAGCTCTGTCTGAATCCAAACCAAGCT

>Sequence 1327

TATACGGCGAATTGCAGCTCCACCGCTGCGGCAGCCGACGTACATGCCGT
GGAAGAGACTCAAGTAGGAGCGCCTGCCCCGAGCTGATACTAGATGTGAAC
CTTTCACCATGAAAATGTTAAAAGATATAAAGGAAGGAGTTAAACAATAT
GGATCCAACCTCCCCTTATATAAAAACATTATTACATTCCATTGCTCATGG
AAATAGACTTACTCCTTATGACTGGGAAATTTTGGCCAAATCTTCCCTTT
CATCCTCTCAGTATCTACAGTTTAAAACCTGGTGGATTGATGGAGTACCT
GCCCC

>Sequence 1328

CCGGGCAGGTACCGGAATCTGCAGATCGCCAAGATTTTCTATAATGATGC
CCTCCTCAGCTTTGTCTGGAACTGGTTGTGAACCTCCGAAGAGGCTTCC
GGAAGGAAGACATAAATNNNCCNANACGAGGGGGGACATAGGAGCTCCAC
GACNNNTCTTCTATTACTCGGCANCCCCCTGCAAGCCTCTCTCATCTG
GGGCCATTCTTCAGCAATNAAGAAGGGCAAACCTCTCCAAAGTTCAATTTG
GGTAGCCAGAACCAGGGGGCTGCCACTTCTGGCAAGCCCCTGGGGAGCCC
AGGCAAGGCCTTCATGGAAGAACCTCTTGGCCAAAGGTTGAAGAAACGAA
CAATCATATGCCTGNCATGGGGAGGTCCCGAGGAAGCCCTGGGTGAATGA
GGTACCCTCGGGCCCGCTTCTAAGAACTAAGTGGGAATCCCTCCGGGG
CTGGCAGTGAATTTTCGATTATCAAAGCCTTAATTCGAAATACCCGTCC
AACCCTTCGGAGGGGGGGGGCCCCGGGTAAACCAAGCTTTTTGGTTTCCC
TTTTAGTTGAAGGGTGAAATTGGCCGCGCCTTTGGCGGTAATTCATGGG
TCAATAGGCTGGTTTCCCTGTAGTGGAAAAATTGTTTATCCGGCTCAACA
ATTTCCACACAACCAATTACAAGCCTGGGGAGCCATAAAAGTGGTAAAAAG
CCCTGGGGGTGGCCTAAATGAGTTGAGCCTAACTTAACATTTAATTGGCG
TTGGCGCTCACCTGCCCCGCTTTCCCAGGTCCGA

>Sequence 1329

ACAGAAGGTTTGGGATTCAGCATCACTTCCAGAGATGTAACAATAGGTGG
CTCAGCTCCAATCTATGTGAAAAACATTCTCCCCGGGGGGCGGCCATT
AGGATGGCCGACTTAAGGCAGGAGACAGACTTATAGAGGTAAATGGAGTA
GATTTAGTGGGCAAAATCCAAGAGGAAGTTGTTTCGCTGTTGAGAAGCAC
CAAGATGGAAGGAACTGTGAGCCTTCTGGTCTTTCGCCAGGAAGACGCCT
TCCACCAAGGGAAGTGAAGCAGAAGATGAGGATATTGTTCTTACACCT
GATGGCACCAGGGAATTTCTGACATTTGAAGTCCACTTAATGATTCAAG
ATCTGCAGGCCTTGGTGTCAAGTGTCAAAGGTAACCGGTCAAAGAGAAACC
ACGCAGATTTGGGAATCTTTGTCAAGTCCATTATTAATGGAGGGGGCAGCA
TCTAAAGATGGAAGGCTTTCCGGTGAATGATCAACTGATAGCAATTAATGG
AGAATCCCTGTTGGGCAAGACAAACCAAGATGCCCTGGAAAACCTAAGA
GGTCTATGTCTACTTGAGGCCATAAACGAAGAATGATCCCGCCTTCC

>Sequence 1330

ACCGTGTTTTGATAGTTGACTAACACTGACCTGTAATGGTCCTACACCCT
CTCCACTTACTTACACTATCTTAGGTAAATAAGACTTTTATTCCTAAGTG
TGAATTTTCACAGGAGGAGAAATCTGGCAGATAGATCCTCACCATCATCT

Table 2

GAACACTCGAACTGGACTTCCTTTTCTGAATTGACCAGTCAAAGAGAAAAG
GAAAAGAAAAAATATGACCGG
>Sequence 1331
GGTACTGTTTGCATTAATAAATTAAAGCTCCATAGGGTCTTCTCGTCTTG
CTGTGTCATGCCCCCTCTTCACGGGCAGGTCAATTTACTGGTTAAAAGT
AAGAGACAGCTGAACCCCCCGCTACCACTGTAATCATTATTCCCAATGT
TATGATTACATTGACAGATAACTCCAGTTTGTAACTGAACTGATGTT
ATGGCCATAATATGTTGTTGATTGATGCAATGGTGATGTGTGAGTTAT
GATCCTGTTTTCTCACAATGGTGGTGGAGGCCGGGAGCTTATATGTTTA
TTATGTATGAATGACGATAGTAAGAGATGGCATATAATCACCAGACTGA
TCATATTGGATTCTTTGGGGAACGGAGCCGGAAGGGAGTAAACAGAGAAG
CTTGACTCTTTATATATCTGTAATCTGCGGCTTTTACAATGAGCATGGT
ATTTTAATATTTTTAAATATCTGATTAAGAACTTATGAAAGAGCCGNT
TTTGAGGTTTAGTGCTAAAATAACACTTAAATGTTATTTCTTAAACAATGC
AACTAGTCTGGGTGAAAGAGACCATAAGGCGCTTTAAACCATCCATTGG
ACTCAGGGAAAAACCATGCTCCAGGGGGAATGAAATCTAGTGGTCCTTT
AGTAAGTCTTTAAAGACCCTTCAAAAAATTTTTGTGTTCACTTTATAG
TAACCCACACCCTCTTCCCAAGATTGCCTAAAGGGGTGGGGATGGTCGGG
CTTTATAATATTTCCGCAATGGAATTTGTGGATAACGTTTGGAACGGGAT
AATCTTTGGG
>Sequence 1332
ACTGGATTTTGAAGCCCTCTATTTAAAAATCCCCAGAAATTAATAAG
GAGGCTTTGGAGGGAGGAATGCCCTAGACAAATTGTGGAGTGGGTTTGT
TTGTTTATGGAGATGGTCTTTAAAGTCTAAATTGTCCCCGTTTATTTTT
GCCCAATTGAAGAGGGGCTGAACTCAGCTGGGAGGGAGGGGATGGTTGTC
AGCCTACAGCTTTTAGTTGAAACCAAGTCCATTCTGGGGCCAAGAAGCTT
CCATTTTAGCAAAGAGAGAAAGGCGAAAAATATACAAACCTCGTACCTC
GGCGCGGACCACGCTAAGGGG
>Sequence 1333
ACTTAATTCATTCTACTTTGTGTTAACTATCTTTTTATGTGTAGGTCTCA
TCACCCCAACCAGACTATAAATTCCTTTGTCATTATTTAAATCCATGCAT
GGAATCCCATAGACATCAACCAATCACCAATAGACAAGCCTTAGAACAT
GTATTACAGGAAAAATAGAGTAACACATACAATAACAGAGGAAGAAC
AATTGACATTAAGTAGAAAAAAATTAACACTCTTGGAGTCTATAGAA
AAATGTAAAGAGAAAGAGAATTGAAGATAATACGTCAACTTAGAAATATT
TAGTTTGCCTGCTTCAACATCAATAATAAAGCATACTAGGAAAAGTGGTC
CTTTAAAGCGATTGTTACAACCTCTCTGAGGTGCTGGTTTTTGATAAATT
TTCTTGGCCTGAGACTGAAACTTTTATTCAGCGATTGGCTGGGTAAAGAGA
ATCAATTAAGAGATTAATGCATCGCGCCATAAACAGAAGACTGCCGTGGT
GAGAGGTAACTTTGTGACATTGTGCTAGGTTTTCATATGGGGTGTGTAA
GGGCTGCAATAAATGTTTAGCATTGTAG
>Sequence 1334
GGTACAAAGTTCAACAAAGTTTGTCTTGATTAAAAAAGAAATGAA
TATCTAATGTATAAACAACCTCAACTTAGATTTCCAAAATCTTGCAATTCA
TTCACATTTGTGCTTCTTTCTACACAGCTGTCATTTACATTCCTAGGCTT
GTATTTCACTATGTAAAAATGGGAATTTAATCTTTATAAATGAGGCATTTA
TGTAATAAAAAAAAAAAAAAGT
>Sequence 1335
ACAATAAACAGCCAAAGAAAAATAACCAGTTAGCACTTAAATAAGAATCT
ACCATGTAAAAAACACAGTATGGGACACTACAAGGTAGTATTTATATATT
TTTTAAATGACTGAGCTACAGTACC
>Sequence 1336
CCCTTAGCGGCCGCCGGGCAGGTACATCTATCTGACCCAGAGTTACCC
TTTTCTATCATGCCCCGTAGGATATTGCCTGGGGACACCTGACAACAGA
AAGTCTAAGGTTTTCATCTAGGATTGGGAGTTACCCCAACACCAGCAGGA
TGCAGGAAAAAGTAACTGACCGGATGGTTGCCTCAATCTGTTGATTCTTC

Table 2

AGTGAGTTAGCTCAGATTTTGTCCAGGAACAGCTTTCAGAGCCAAAGATT
ACGTATTGAACTCTACCAAGGCATCTGGTGA CTAGAAAACCTCTGGAAGG
TGGTCATAGCAGAAATTGTTGGGAAAGTTCTCAGCATATTTAAAGAGAAA
TTTTTATTTCTTCATGATCCACTCCTACAGGGAAAAATAAATGGCAAAT
GAACCCATGTATGTCAGACTCTGTAATAAACATCAGTGAGATCACAGTGT
CAAGAAATTTAGCCTGAATTAAGATACCCTTGCTCTCTTAAGAAAGAA
ATAGAGTTAGAAATTGTCCCTTGGCCCGACCACCTAAGGG

>Sequence 1337

GGTACTTTTTTTTTTTTTTTTTTTTTTTTGC AAACCTTATAAATAAAAAAG
TGGTATGCCAGTAAAGTTTCAATTTACATTTCTCTTCTGAATGAAACTGA
GCATTTTCCATTTTCTCCTAGATTCTTAGGAAGCCTTTGTATCTGCGAT
ATAAGTTACTTTCTCCTTCTTTGTCTATGTTGTTTAACTTTGCACTTTCTT
TTTAAAACCTGCAGTAAATTTTAAATCTTTTCATTCAGTGCTTCTGGTTT
TCAAATCACATACAGAAAGAATCTCCCGAGTCAGAGGGTGTGACCACAGT
CTGTTCTGGTGCTTCTATGGCTTCACTTTTCACTTTGAATCTCTGACGT
AGTTGGAATTTATTCTGGGCTATAAGGACCCGACTTTATTTTAAGAACAA
AATTTTTTTAAACAAATGTTAACTTAACTTCCTAAAGGCAGATTATTACT
GGGACCATGTGTGACTNGCATGTCTATGTTTGCTTAGGAACATTCTTCCA
GAAGAATTTGCAATGCTGAAAGGATGATGACTCAGATCGGGACATCTTCA
TCTTGAAACATTATTGTAATATAGN

>Sequence 1338

GGTACTTTTGGTAAAAGATTTTAAGAAGGCATGGGAATATGAATTTCTCA
CCTAAGTTTAGAGGGTTAAAGGATTGTGTTAAGTGAGGAAGGAAAAAATC
TAAAGGTTTAAACAAGTTGTGAAAGGTTTATAAAAAATTAATGTGTGCAA
ACATATCGGCTAAAGTTAAAGAGGTATTATTCTGTTTTTCCATAAATTGA
ACATTGGAATAAAAGTGCAACAGAGTTTCCCTAAATCATTGTCTCTCTCT
TTAACAAAAAAATATTGTAAGGGTTATAAAAGGTTTATAAGAATCTTA
CCTATGGACAACTAACTAAACTGAATGGATTGTGTAATAATGCTATTAA
ACTAAATTAAGGCTGGACGTGGTGGCTCACACCTGAATTTGAGCACTTTG
GGAAGCCGAGGCAGGCCGATCACTCTGATGTTACGAGTTTGAGACTAGCC
TGCCCTATGGTGAAACACTGTTCTCTTAACAATATGCGAGCGTGTGCG
GTCCGATGATGTCCAGCTGCTTGTAGGATGCGCTAGAGAATTGCCCTAA
CTGTTATGCTTTGATCGTGTCTCTN

>Sequence 1339

ACTAAAAATTTCCACTATCAGAAGATCCTGATTAAAAATAAGAAATACAT
AAAACCTCAACAGTAAGTCAATGTGATTATTTGTTTCATTTGAGAAGATC
TATGGGTCCCACTGCCCGCCACACGTGTCTCCTGGTTCTCAACGAAGTGT
GACCAGCTCTTCTGAAGAGGTAGGGTGAATGGCGACTGTGTTGTCAAAGT
CTGCCTTCGTTGCTCCCATCTTCAGTGCAGCAGCAGAGCCCTGCAGCATT
TCATCACACCCAAGTCCCTGCATATGGATCCCAACCACCTTGTCTTACTT
GGTGGCACAGACCATTTGTGATCACACCATTTGTTGGTTTGTCTTTGGTACC
TCGGGCGGGAGCACGCTAAAGGC

>Sequence 1340

GGTACTTTTAACTATTTGTTTCTTCTACGATAATTGGTTTGTGTGACTT
TATCTACCTAGAGTAAATTTTGGCAATTTGCATTTTCTCAAAATAGTTT
TTGAATTTATTTGTGTAATAATTTGCTCAAAATAGTCAATTTAAACAAATTC
CTGTTTACTATTTCCCCCTTGTCAATTAATTTTGTATTTGTGCTTCC
TCCCGCGT

>Sequence 1341

ACTTTGACTATTTTTTAGCAACAAATTACTTTTGACACACAGCACAATTG
ATTTAACACTTCCAATTTTGGAACTATTGGATAAATAATGATGGGATTTA
AATAAGCAATCCGATTCTACTATTACAGCATAGGGTCTCTTGTAGTCCT
CTTAGTAAAAACTATTGTGACACTTCTTCTTCTCCAAATATTCGGCCT
GGAAAGACCTAAATACAATGCAGGGATTGAATCAAAATTCACACATTTTTT
TTCCTACGGAAACAACACCTTTCTTGCTTATATTAAACAAAACTAGTA
TAGATT

Table 2

>Sequence 1342

CGTACTATAGGGAGTCGACCACGCGTCCGGTGGTACGTGGTGCGGGATCG
AGATTGCGGGCTATGGCGCCGAAGGTTTTTCGTCACTACTGGGATATCCC
CGATGGCACCGATTGCCACCGCAAAGCCTACAGCACCACCAGTATTGCCA
GCGTCGCTGGCCTGACCGTCGCTGCCTACAGAGTCACACTCAATCCTCCG
GGCACCTTCCTTGAAGGAGTGGCTAACGTTGGACAATACAGTTCACTGC
AGCTGCTGTGCGGGGCCGTGTTGGCCTCACCACCTGCATCAGCGCCCATG
TCCGCGAGAAGCCCCGACGACCCCTGAACTACTTCTTCGTGGCCTGCGC
CGAAGCCTGACTCTGGGAGCACGCACGCACAACACTACGGGATTGGCGCCGA
CGCCTGCGTGTACTTTGGCATAGCGGCCTTCTGGTCAAGAAATGGCCGGC
TGGAGGGCTGGGAGGTGTTTGCAAAACCCAAATGTGTGAGCCCTGTGCCTG
CCGGGGACCTCAGCCTGCAAAATGCGTCCAGAAATAAAAACTGGGTCTGG
GTGCGAAAAAAGGGCCG

>Sequence 1343

CGTCTTATGGAGTCGACCCACGCGTCCGAATGCAGTGAAAGTGACACTGC
CTGACCTTCAAGACTAGATCATCAAAGTGCTACAGCTTCTGCTTTGGCT
TACCCTCTCTGTCGTGGGACACTCACCCTTGGACCAATCTCCACACTGT
GAGAACTTCTATGCTACCTGGAGAGGCCTTCTATAGATATTTCACTCAAC
AGGCTAGTTAAAGTTTCAGCCAGCGTCAACCACCAACATGTGGGTGAG
TGAACCTCAAATGATTGCAGCTCCAGCCTTTGAGTCTTCCAGTTGCGG
TCCAGTCATTGAAACAGAGTCAAGCTGCCCGCGCTGTGATTTATCTGAA
TTTCTGACCCACTGGGAGCATAATAAATGATTGTTTATGTTNAAAAAA
AAAAAATAAATAAAAAAAGG

>Sequence 1344

TGTACTATAGGGAGTCGACCCACGCGTCCGTCCAGAATTTCTAGAGTGGG
TGGGCATGATTCAGTCAATGGGGGACCGCCCGTGTCTAAGCATGTGCAA
AGGAGAGGAGGAGATGAGGTCATTGTTTGTCTTGTCTCTCTCAGA
ATCAGCGAGCCAGCTGTAGGGTGGGGGGCAGGCTCCCATGGCAGGGTC
CTTGGGGTACCCCTTTTCTCTCAGCCCCCTCCCTGTGTGCGGCCTCTCA
CCTCTACCCACTCTCTCCTAATCCCTACTTAAGTAGGGCTTGCCCCAC
TTCAGAGGTTTTGGGGTTCAGGGTGTCTGAGTCTTCCCTTTGCTGTGCCA
GGTCATCCCAAACCTTCTGTTATTTATTAGGGCTGTGGGAAGGGTTTTT
CCTTCTTTTCTTGGAACACTGCCCTGTTCTTCACTGCCCCCATGC
CTTAAACTCATAAGATTGTCCATCATGGGGGGCATGGGTGGAGCAAAAG
GGCTTCTTAAACCCGGCAGGCCAAGGCAATTGGTAAAGGAAGCACTTGC
CCCCCTTCTGGCCCTTCTTAATCTTTAATAAAAAACCCGGCTTCTTAT
TTTTTAAAAAAACCTTTTTGTTACAAAAAAGGGC
CGCCCCCTTGACTTATCTTAGAGAAAAAACATTCCAACCTTCCCCTT
GAACCTTGAACCATAAAGAAATCCATTTTGGTTGTAACCTGTTATTTG
CACTTAATAAGGGTTCCAAAATAACAATATCCTTCCCAATTTCCATATA
AGCCATTTTTTACTGGCTCT

>Sequence 1345

ACGCCTTGAGAGCCTAGGACACGGCCCGATATTACTGTGCGTTTCACAAT
CGGGCCCTCTACTGGGGCCAGGGAGCCAGGTCAACGCTCTCCTCAGCCTT
CACCAAGGGCCCATCGGTCTTCCCCTGGCACCTCCTCCAAGAGCACCT
CTGGGGGCACAGCGGCCCTGGGCTGCCTGGTCAAGGACTACTTCCCGAA
CCGGTGACGGTGTCTGGAACCTCAGGCGCCCTGACCAGCGGCGTGCACAC
CTTCCCGGCTGTTCTACAGGCCTTAGGACTTTACTTCTTAACAGCGTGG
TGACCGGGCCCTCCACAACCTTTGGGCACCCCAACCTACATTTTTCACGT
GAATTACAGGCCATCAACCCCAAAGGGGCAAGAAAGTTGTGCCCAAAT
TTTGACCAAGATGATACATGCCACCGCCCGACCCCTAACCTCTGGGG
GGGCGCGAGTCTTCTTTTCCCCAAA

>Sequence 1346

GGTACTAGATTGGGTGTGTATTAAAGAGAAAAGACAGGAGTCAAAGATAG
TTCCAAAACCTTTGAACAGAACTGGATGAATACTGTTTACTGAGATGG
GGAACACTTAGAGAAAAATGCATTTGGAAAGCAGAAATACGATCAAGACT

Table 2

TCCATTTTGTACATTAAGCTTGGTATGTTTAATTCATAGCTATATAGA
GGTATTAATTTGGCAGGACAAAATCATAGCTAGAGATAAAAAATTTAGAGT
TCACCAAGTGTAAGATGATATTTGATGGCACAGGATGGACTTTCTCTGG
GATTTGAGTATACATAGAGGAAAGATGTGAGGATTGAGCACCAGGGGACT
TCAACATTGACAGGCTCAACAGAGGAGAATCCCAAGAGGATGAGGTTCC
ACCTTTAGGACCGCCAAAGAAGACTTCCCAGACAAGTACCTGCCCGGGCG
GCCGCTAAAGGG

>Sequence 1347

GGTACTTTTAACTATTTGTTTCTTCTACGATAATTGGTTTGTGTGACTT
TATCTACCTAGAGTAATTTGGCAATTTGCATTTTCTCAAAATAGTTTT
TGAATTTATTTGTGTAAAAATGCTCAAAATAGTCAATTTAAACAAATTTCC
TGTTTTACTATTTCCCCCTTGTCATTTAAATTTTGTATTTGTGCTTCCT
CCCGCT

>Sequence 1348

GGTACAAATTAAGTCTGTAATATTGCTTTCTATTAAGGGTGTGGTTTTT
TTTTTTGTTGTTTTTTTTTTTTTAGCTAGTCCAGTGGTCTTTTTGATGT
TGGTTCAGCTTAGTGGTTCTCAACCTGGAACAACCCGTAGACCCACCTG
GGGAGCTCTTAAATTTATCAGTGCCTACCCACCTTCCAAGATTCTGATT
TAAATCCTGTAGTGTTTTAAAGGCACCCAGGTGATTGTAATGTACCTGC
CCGGCGGCCGCTAAAGGG

>Sequence 1349

CCCTTAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTGG
GTTT
TTTTTTTTTTTTTTTTTTTTTAAAAAAGGGGTAACATTAATTTTTTTTT
TCCCCCAATGGGCACGGGTTTAATCCCAATTTTTAATTTTTTGGGA
AAAAAAAAAAAAATACCATTTTTAAAAACCCAGGGGGGGTTTTTTTTTA
AAAAAACTTGTTAAACCTATTTTTTGGGGGGGGTTAAAAATTTTTTTTT
TTGGGCCAAAAAAATCCCCCCTTTTTTCCCTTTTTAAAAAACGGAAG
TGGGGCCTGCTTTTTTAATTCACCCTTTAAAAAAATTTCTGGAGGGTTTC
CCAATTTTTTTAAGGAAATTTCCCGTGGAAATTTTTTAAAAAAGGGAAA
AAAAAAAGGTTTTATTTTTTTGTAGGGCCCCACCCAGTTGGTGGGAAA
AGCCCTTTCCCAATTTTTTCCCTTGCGGGGCAAAAGGTTTTTTAAAA
AAAAAAATTTTTTTAAAAATCTTTAAAAATTTGGTGGTTTTGAAATTTAA
CAAACCGTTTGTTAGCCCCCTGTAAATGTTTCCAAACCAAAAAAAGG
TTTCTCCCCGTTTCTTTGGCGGGAACCACTTAAGGGGTATATCCCC
AATCTGGGGGGTTTTATATAAAATTCATTTGTTAACACAATTTGGGAAA
ATAGGAAATAATTG

>Sequence 1350

GGTACTTCGTCTTCTAATTTCAAAAATATAACTTAAAAATGTAAATATTC
TATATGAATTTAAATATAATTCTGTAAATGTGTGTAGGTCTCACTGTAAC
AACTATTTGTTACTATAATAAACTATAATATTGATGTCAGGAATCAGGA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAGTACCTGCCCGGGCGGCCAA
GGG

>Sequence 1351

ACAAGTATTATGTATCCATAAAAAATAAAAATCTTTAAAAATGCATATG
GGGGTCAGTAGGAAAAGAAAAGAGAACCAAGAGAGCTGCAGCGGGGAGCA
CAGCTTGCTTTAAACATGAGATCCAGCTCAGTGATCATGCGGGGAAAAG
GCCCCGCATTGCTGGAACCTCTAATATTTAAAAAGATGATGGAACTTGA
AATTTTATATTTAATCTTCTCATTTTTAAGTGTGGCAATGTATTGAAGA
CTTTGAAGCCTCTCTGCTGGTCAAAACAGATGTATCTGTAGGCTGGATT
AGTCCACAGCTGGCCAGTTTGAAAACCTGAATCCTGCTAGCCTTAATTTAA
ATTTTTTAAATTTAATTTGCTTTGATTCTGCACTCCTGCTCAAAAAA
TCTTCAATGGCTCCCCACTGTCTGCAAGGTAAAAATCCAACTTTGTCACC
AGTCCTTCAAGCAACCCATGACTATATCCNGACCCCAACCATATTTCTA
CCTTAATATCAGTCTCCATCTTTCCACCGCACCAGAATGATAGTTGAAAT
GTACCTNGGNCGCGACCACTTAAGGC

Table 2

>Sequence 1352
GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTACAGTTATACTGTGG
AAAGTTATTCAAATTTCAAATTTATTACAGTGTGTTGAAAAGCACACAAC
AGAAGATCTTCATTTATGCAACAAGTCAATCATTTGCAGTATGTATGGAA
AATAAAAATCTAAGGTAAGTCAAACATACAACTCTACCTCTTGCTTTCT
CCATTAGAATATACACATTGGAAATCTAAGTTCCAAACAGTTCCTCTCTA
CTGAAGATAGTGAATTTAGTGCAAGCCCCCTAATTACCAATTTTTTGA
TGCTTACA
>Sequence 1353
ACATTGGTTTGATCTGGAAAGGCAGGACAACCCAAAGCGGGCTGGGGACA
GTTCCAAGTTATAGGAGGTTTTCCAATTGGCAGTTCGTTGAAAGAGTTTA
TCTTAAGACCTGGAATCAATACAAGGGAGTGTGTCTGGGTAAATAAAG
GGGTTGTGGAGATCAAGGTTCTTATTAGGCAGATGAAGCCTCCAGGTAGC
AGGCTTCAGAGAGAATAGATTGTAAATGTTTCTTATCAGACTTAAAAAGG
TCCCAGACTCCTAGTTAATTTCTAGTGGATCAGGAAAAAGACCTGGACA
GGGAAGAGGG
>Sequence 1354
GGTACTTTTTTTTTTTTTTTGGTTTTTTTTTTTTTTTTTTTTTTTTT
TTT
TTTTTTTTTTTTTTTTTTTTTAATTTAAAAAAGGAATTTT
TTTTGAAAAATACAAAGAATTAATAAAAAATTTTTTTTTAAAAATTTT
TTAGGAAAGGGGGGAAAAAATAAAAAAATTTTTTTTTTTT
TTTTAAAAAATTTTATTGGGGGGGGGTATAAAAAAGAAAAATTTAA
GAAAAAGGGG
>Sequence 1355
GGTACAGAACCTGCCTGAGTATGACCTCTCCACCTTATAGTTTATGAATG
TCTTGTGTTGTGAAAGTACTATAACCCAACTTTTTTTTTTAAAGAGGA
TTTGGAAGTTGTATGGATTTTTGTATCTTCACTTACTGCATAGGAAA
CAATCTACCTCATCTTAAAAATGACATGGGTGTGGTTTGTAGATCTT
TGGTTTTTTGTGAGTTTAAATTCAGTTAACAAAATGTAAACATGACA
TTCCCTGCAGATATTGTGTATACCAGTATGGTTCTTCTCTTTTAA
ATGTTTTTGGCCATCAAGTAGN
>Sequence 1356
CACTTTTTTTTTTTTTTTTTTTTTTTGAGTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTACCCCAA
AAAAAAATTTTTTTTACCCAAAATTTCCCTTATCCCTTTCCCTTTT
TTAAAAACCCCTTCTTTTTTTTTTAAACCCCTTCCCTGTTAAGCCC
CCTAAAACCTTTCCCTGGCCCCCTTTTTTAAAAAAGCCCCCCCC
CCCCCCCCAAAAAATTTTTTTTTTTCCCAAAGGCCCTT
>Sequence 1357
ACAACACTTTAAAAAGTGAATTTTAAAGCTATGTGAATATCTCAATAAAAA
CATTTTTTAAATAAAAAACAATTCCCAAAGGCCTGGAAATTCAGGAACATA
ATTCAAAATAATTTATGGATCAAAAAATAATCATATAAAGATCTGAGAA
CTACAATGTAAAAATATAGAAAAAGTCATAACAATATTAGAAAAAATT
TGAGCTGGATAACAAAAATAGTACC
>Sequence 1358
GGTACTTACATGGAAATAAGTGTTAAGAAAAGGA
>Sequence 1359
GGTACAAAGAAAAAGCTAAGGAACGGTATGTATATTAATCCCTTTATTAA
AAATGTAAAAAGCCAAAAGCAAGATAGACGCAGATATGTGCCAAATATG
TATTTTTTTTCTGGAACAAATCACAAGAAATGTAATAACAGTTACAGT
GAGAGGAGCCTTTGACATCTCTTCTAAACTATTGATATCATTTGTATA
CTAACGATGT
>Sequence 1360
GGTACGCGGGATAGGCCTTCTTGTATTATTTCAAAGAAAGAGACTTGAC
GTTTTATGAGTGGGGTGGATTGTAGGTTGAGCAGAACTAATGGGAGAGGT

Table 2

GCTGGCTAGAGAAAGTTAAAAATTTCTGTTAGCTTTGCATTGAGCTTTTT
AATATCATTGTTCATTTACCAGTTTCAGAGGATTGGGGGTGATGGGCAC
AACAGAAATGATGGAATATAGGCCAAATGTTACAAATAGATAAAATTACC
TGACCAGTGAAGTGTGTTCTCAGTCGCCATGGAGCTCAGATTGGACTCC
CAAAAAAAAAAAAAAAAAAGTGN
>Sequence 1361
GGTACTATAGCTTCAGTGTGGTTTAGTAACTTAGCCTAGGAGGCCAAGA
TGTCTCCCTAAAACTTAGTCTCTGTCCTATTTACTTTGTTTATAAGACTG
TGACCTAACTTCCCATGGCCAATTCAATCGACTAGGTTATCTTTACTCCA
ATGGACCCAGGCCTTTTCCAGTCAATCCATGTCCAACCCCTTCATCTCCA
GCGTGATCACTCAACTCTTCAACTTGCCTGCTTGCTGCAGGTTTAAACCA
CACCACCATNCTGTGCTTTCCCTTAATCGCCCATGATGCCCCCAGTAA
AAATAAACTAAACCCACTTGAAGTGCC
>Sequence 1362
CGTACATGAAAAATGGCTGTTTTTCCCCACATTAGTCAGCTCTGGATTTTG
CATGTGTGGGGCTTTTTTTTTTTTTTGATAGTTATTTGTTTTTATTTTA
AAAAATTTATTTTGCCAACCCAGTAGAGAACAGCTGAGCATCTTCTCATGT
ATTTATTGGCCATTGTCATTTCTGCTGCTTATTGGCCATGTATTTATCTG
CCATTTGCCGCTGCTGTGAAATGTCTTACATTATTTGCCCATTTTTCTA
GTGATAAAACACTGAAGCACATTTTTAAAGACTTCTGATGATTTTTATTG
TCAGAT
>Sequence 1363
GGTACATTTAAAGGTGATGCTAATACTCTAAAAATGTATAAGATATAGAT
GTAAAAAGCATTGTAAATTGTATACTGCAGTGTCTGCTACATGGCATTGG
ACAGGACATAATGTACAACATAAAAGTGCAACTTGTACACTTTACATAT
CGATGAGTGAATCGGCAACTACGACCAATTTTGTCTCAAGTCAAAATAC
CAAGCACTATTGCACAGTCTACTGGATTTATGTATATATGACATATCTGG
ATACTGCATGCACCACATTATTGGCGGCCTTTAGCTAAGCTGTAGAGTG
CTATTGTGCGACCGCTTAGTGATACTATTCTGGT
>Sequence 1364
GGTACTCAAACCTCTTTCAGCCTACTACTGCACACCTAGGCTATGTGGTAT
AGCTACCTTGATATGTGGTCTGTCACTGACTAAAACCTTTGCTACACAGC
GTATGACCCTACTATTTCAGCCTTGAGAAGATGGAAATGCTGTCAATTTGCA
ACAAATATGGATGAACCTGGAGGACATTAAATTAAGTGAAATACGCCAGGC
ACAGAACGACAAGTAACACATAATCTCACTTATATGTAGAATCTAACAAA
GCTGAACCTCATAGATGCAGACTTAGATGATCCTTACCATGGGCTGTGAGG
AGGATTATGAGGGAGGCAGAG
>Sequence 1365
GGTACTTTTTTTTTTTTTTTTTTTTTTTTACTTTATTTTACTTTAAGTTC
CAGGATACATGTGCAGAGTATGCAGGTTTGTTACAGGTATACATGTGCCA
TGGTGGTTTGCTGCACCCATCAACCCATCACCTAGGTTTTAAGCCCCACA
TGCATTAGGTATTTGTTCTAATGCTCTCCCTCCCCTTAACAGCAGTTTTT
CTATAGGTCAAAACAAATTTGGGAACCAGAATTGTCTACTGTCTTTATAT
AAATGATCATTACGATTGGGAGGAGGTTTTTTTGGTCACATTTGATAT
GATTAGTCACTAAAGCATGATCT
>Sequence 1366
ACCACAACGTTTCTACTCTATTGTGTAAGCTTTAAATACAAAAATACCAC
AACCCTCCCGGACTCCTCCATTATTTAGTAATACTGGCTGCCCTAGTT
TTTCAGGATACATCATGCAAATAAGTTCTTTATTTTCAAAATTTTAA
TTCTAAAGTATCTTTAATTTTCTTTTGGTTATACAGCTTATAGAATA
AACAAGTCACAAGAATCTTCATTTGTTTCTAAAGTATATAATTCTACAAA
AGTTGTTTTACTCAATGTGAATTAATAATTTGCAAGTCTAAAAAATAAAA
AAATTTTAAAAAGTAAAAAAA
>Sequence 1367
ACAATATATTATGAAGCATGACCACTTTATTTTGAACTTAGCAATTGTA
TTGCTGGGGTTTATTGTATCTGTAGCATGTCACTGATTATTTAGTTAGT

Table 2

TTTATAATGATTTTTAAAAACATATCTATTTGGAATAAGATACAGCAAC
AATCATTGCTATTGACTTGTTCACCCCTTAGTTACACTGTATGATCAAC
ATATAACAAGATACAGTGAATGGCCCATACAGTATATTACTGTTGTGTG
ATGATTGGCTTTGGAAGCAGTTTGATTTTGAAATGCTTTGATATTCTAAT
TGACATGGAACAAG
>Sequence 1368
CCCTTAGCGGCCGCCCGGGCAGGTACATATGATGGGGCCAATGCACAATA
CTTTTATCACAATCAACTTTTTCTTGTATCCCTATTTCAATGAGCAGTC
AGTCTCAAGAGGTTACTGCATTTTCAGTTCTAACTAGACATTTGTACTTGT
GATCACACTACGGGAATCTCTGTGGTATATACCTGGGGCCATTCTAGGCT
CTTTCAAGTGACTTTTGGAAATCAACCTTTTTTATTTGGGGGGGAGGATG
GGAAAAAGAGCTGAGAGTTTATGCTGAAATGGATNTATAGAATTTTGA
AATCTATTTTAGTGTTCGTTTTTTAACTGGTCATTCCTT
>Sequence 1369
GGTACAGCTTCTCTGCCTCACGTTTCAAGCTTAATGCATCATCTTAATT
CATCTTTTCGACATCTATTTCTACTACATGCTGCTCTCTTCTCTATCTTA
CATCTCCAGAAATGTTTTATTCAACAAATTGCTAATCTGTGCCAGGCAT
TGTTATTAGCAAAATGATAAGCCCTGCATGTAGCAAAGTTCCTGCCTTCA
CTGCATATGCATTAACAGCTCTGATTAGTCCACTTAAAAACCATTTGTTCC
CGTCATGCAGAACTCCATTGCCAAGCCCCACAACCCAGCCAGTAGGTT
AGCAAGCTCCCTGAAGCAAGGTAAACATGTTG
>Sequence 1370
GGTACTTT
TTTTTTTTTTTTTTTTTTTTTTTTTAAATTTATATATTTTTTTTTTTTTT
TTTTACCCCGGAAAAAAGGCCCAAAAAAGGGGCTTTTATGGCA
CAATAAAAAACCAAGGGGGTCTAAAGGGTAATCGGGCATTTTTTTTG
GGGGGCCGGGAAACTTTAAATCTATTTAAAGCCGGGAAAAAGTTCTT
TTTTAGAAAAAACCCTCAAAATTCCTCCGGATCCCGGTTAAAAAA
GGGGGGGGATGGAAA
>Sequence 1371
ACTGTCGTTTCCTTCTACCTCGTCCTCACCCACCCGAGTGAAACTTT
TCGAGTGTGAACCTTACTTTTTTCCCGTTCTCCTCAAGGCAGTTTGAACG
ACACAGGTTTGAAGGAATAGTTAACTCTCCAGTATTATTGGAACATCTG
GACACCACCAACAAAAATCTTAGAAAAGGGTCATTTAAGGCCTATAAAA
AGTGCCACCTTTCCAGAATTAATTCAGAGAGAAAAATCTTATCTGCCTC
CTGGCAGCTACAGCGCAGAAAGTACC
>Sequence 1372
GGTACTTTTTTTTTTTTTTTTTTTTGGTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTATATTTTTTTTTTTTTTTTTTAAAAACCCATGTACCC
GGGCACAGAAGGTCCAGCATCCTTTGAAACATGAGTTTTTACCAACAAAA
GCAAACCTTTACCCCAACACCTCATCTTTAACAGCAGGAAGGGAAACAAC
CCAACCCCTTACCTAAGAAAATATTTTTTCCCAAAACCAAGGACCCA
TGCCCTCAAGGGTTCCACAACCTTGAACACAAAGATTCCACAACCCGT
GCTTTCCTTTGCCCTGGCCGACGTTATAAAAG
>Sequence 1373
GGTACAGCTATTCTCAATGGATAATTCTATAAAATATTTAAAGAAGAATC
AACACCAGTCTCCACACTCTCCTCTAGAAGAAGAGGAGGATGGAATACC
TTCCCTTAATTTATGAGGCCAATATTACCCTGATGCCAAATCCAGACA
AAGATATTGTCCCCAAAATAAACTAACGATCATAGATAAATACTCTT
ATAAATTTAGATGCANAATCTTAAGCANAATATATTAGCANAATGAATTC
AACAATGAATAAACATATTATACACCAAGTGGGATTTATTCTAGCTATG
CAAGACTAGCTTGACATTTGAAATTGATTA
>Sequence 1374
CCCTTTGCGGCCGCCCGGGCAGGTAAGTGGGAATACAGGCATGAGCCACCG
CACCCGGCCAGAAATTATAAATCTAACCCAGGATCCCAACCTACAATAC
AATGGAAATATCATATTTCTCTTATAGGGTTTTTGGGTTTTAACCCAAT

Tabl 2

CTATTTTAAAAGGGGGCAGATTCAAGCGATTATGCGTTTATATGAGTGGA
TTCTCTGTTTGAATACTGAATCAAATGTTCACTGGGAGAACAAACGCAACT
AATTTGCAAAAGGCATACTCTATGCCTTACATTAAATGTGGATCCTCTTC
TAAAACTAGAATAAGCATCAGTTCAGTCACCCAACGTGGGAAGAAAGAAT
AGAGGTGGCAAGAAATGAAGCTCAAGTTTGTGTTTGAACAAAAGAAGAAA
CTTATTTAAAGAATCTTCTGAGTTACTACATAACAACCATTTCTTAATG
GCAGTTTAGCTAGTCCGAGGGACCAAAAAACAAAACCAAAACCAAAAAAC
CAAAACGGATGGTCTTTTGGGCCCTATTATTGGGGCTTAATCCTAAACT
GGAAATTCTATCCTTTAAGAAAAATGAATTTGGGTAATTATTTCCCAATG
GTTTGGTTTTTTAAAGAAAGGTTAAATAAACCAATTTAGCCGTTTTTT
TCTAGGGAAAATAAATTCCTTTAACCTCACCCCTTTGGAATTATGATTTG
GTCAAAAATCACAAACCCGATTTTCTTATTTTATAGAACTTTTCCCC
CATTTT
>Sequence 1375
ACGCGGGGATATGATTGGCCGGCGAATCGTGTTCTCTTTTCTCCTTG
GCTGTCTGAAGATAGATCGCCATCATGAACGACACCGTAACTATCCGCAC
TAGAAAGTTCATGACCAACCGACTACTTCAGAGGAAACAAATGGTCATTG
AATGACCTTCACCCCGCGAAGGCTACAGTGCCTAACACAGAAATACGGAA
AAAAGTAGCCATAATGTACTTTTGTCCGTTACCACGCTGAGGGCCGATTT
TTTGCCCACTAACCGGTCGTTACTAGTGAGACTAGCGACGATTCCAAGT
TGTCATATTACTCGATATATCTTA
>Sequence 1376
ACTTCTTTTTTCTTTTTCTTTTGTATTTTTTTTTTTTTTGAGACAGG
GTCTCACTCTGTCAACCCAGGCTGGAGACAGCAAGATCCCGTCAATTAA
AACAACAAATAAATAAACAACAAATGCCCAACAAGGAGAGAACGGGAAGT
CATAGGCAATCTCATTTCATGAACATAGATTAACCAACCTGAAGTATATA
CATACCCACACCCCGACATGAATACATATGAGATGTGTAATGTGAATA
CTTACATGTATGTATATGAAAGCAAACCAAAATCAAAACATGTTAAATAAA
AATAACACATCATGACTGACTGGCATTGTGCCAAGAATGCAAAGCTACT
TGAGAAAATCTATTAATTCATCAATTTAATACTTTAAAGAGGGGAAAAA
GTTTATGAACATCTCAACAGATGTAGTAAAGTATCTGATAAATGCTCTT
AGGGTGGATAAAAACTTCTAAGTTATAACAGAAGGGAAGTTTTTAAGT
TTACAGGGTTGTTTACCAAAACACCTTCAGCAAACATTACACTTACTGAT
GAAACCCTGAAAGCCTTCTGAAAATAGAAACAGGGGAGGGAGCCCACTT
TTACCACTTCATTAGGATTACACAACAAATTCTTCCAAGCCTTGGAGGAC
AGGAAAAGAACTTAAGACCTTAAATGGAAGAAACCAAACTACTTTTTAT
ATTGTGAATGGAGTAAACAAG
>Sequence 1377
GGTACCATATAAAAAACATTCCAGTGTCAACAGCACTTTAAATTTTCACAG
TAATATATGAAAGAACAGACTTTACACTTCTTTTGCACAGAATTATCTTT
GCTATGTTTTTAAATACTTAAGAAATAGAAACAAATTTAAGAGAGTTTTT
ACCTTTAAATTTATTACATAAGCTATACACACAAATGAAATCCTAGTT
ATAAAAGATGCATCTAGAAGATAATTTATAATAAACCAACAAAAATGAG
AATGTGTATCTCCAGGAATATAATATATTTAAATGTTCTCAGTGACTGG
CATTGCTTTATGCATTACATAAGATAGTATGT
>Sequence 1378
GGTACACAGGGGCTTGACTTTTTCAACTTCGTTTCTTTGTTGGAGTCAA
AAAGAACCACTTGTGGTTCTAAAAGGTGTGAAGGTGATTTAAGGGCCAG
GTCAGCCACTGTTTGTGTTACAAAATCAGGTAACCTAAGCATACACTTTT
TCTCTTTCCATGACATCAAGACTTTGCTAAAGACATGAAGCCACGGGTGC
CAGAAGCTACTGCGATGCCCCGGGAGTTAGCCCCCTGGTAATAGCTGTAA
ACTTCAATTTCTAGCCATACGCTCAGCTCATCCATGCCTCAGAAAGTGCA
TCTGGAGAGAACAGGTTTCTAAGCATAAAAGATGAAAGAGCAGTTGGACT
TTTTAAAAATTCAGCAAAAGTGGTTCCTCTCTTAGGGACAGTCAAAACCA
AGTCACTTAGGTAGTACCTGCCCCGGGCGGCCGCTAAGGG
>Sequence 1379

Table 2

ACGCGGGGTGAATGGAATGCCTTGCAATATGAATGTTAATATAATGTGTA
AAGGGAGATTAAAAAGTTGAATGATATCCTAAAAA
AAGTACC

>Sequence 1380

ACAGTAATTTTGAAACCTCTTTGATGTCTGGCTTATAGAAGACACCTGN
GTTCTTATATCTGCTTCTGAATCGATCTATCGTAATGTCGTATTTGGCT
GAAGTATGTGAAGACAATACTACCTTACAAAGATATGTATNTTCAAAGG
AAATACATATCATAAAGTTTGACAAAGCCAGTGAGTGATACTAAAGTTGT
CACGATGGATGGTGTCTATCTGGAGAGCTGGCAGGGAACAGCCAAGCCCC
TTGAGCGCTCCTTGACAGCAAGAACTATGATTGATGTGTTCTTACTCAC
TTGTAATTTGCGTGATTGTGGCTCTATTTCAATAACTTTTCAGAAGACTT
GAGATATTTCTTTTGATACTACATCAGAAGTTTGGCAAGTACTTCAAGT
AGTAAATTTCCGAATATTTCTTTTAAATAATGTGG

>Sequence 1381

ACAAGCCATTGAATAAGCCTCTTCTTTTTTTTGTCTCAAACATTCCACAT
CCTTGTGGATTCCCCTGCATTGTTTGTATATAACATTGATATTTGT
TGTAAGCTTGATATGAACATAATTTCTTTAGAGGTAGTCACTGTTCTCT
CCAGTATGACCCAGGTTTCTTGACTCTGAGTAATGCACCTTCTATACTA
TCTAAATTTCTATTGAAGCTTTTGGATTATGAGTATGCTGACTTTTCAC
GATTGGCTGGTGCATGTTTAGACTTAAATGTCATATCCTTCATGTCTCAA
AGCCAAAATAGTAACATCTCATCTCAGAACAGAGCTGTGACCACATGCCA
ATATATGTGTCACAAAGTCTACATATGTTACATTCTTGGAAAGTCTCCTT
AAATGTTTCACAAAATGTCAACAAGCTTGTGTTTGTATTGATATTTCCGA
GATTGGGCACATTTAAGACAGTAAACGGGAAAGGTGGTGAAGATGCTATA
AGAAGATGCCTGTATCTTGAGAAATTGAAAATGAAAATCTGACATGGTTT
GAAAAATCATGAACGGTATATATAAAGGGAGCATGTGTAGGAGCCATTTA
AATTCATAACAGTATGTGCCCTTAAGCGTTTAACTTTATGAAGGGCTA
AAGAGATACATTTTCGGAATTTGACAAAAGGGATTGAAATTAGGTCCTG
TGGAATATTAATGG

>Sequence 1382

ACCAAAATTCATTCAAGAAGAAATAGATACCAGCCTGAGCAACATGGCAA
AATCCCATCTCTACAAAACATAAAAAAATTAGTCGGGCATGGTG
GTGCACACCTGTAATCCCAGCTTGTGAGGAGGCTGAAGTGGGAGGATCAC
CTGAGCCCAGGGAGGTCAAGGATGCAGTGAGCCATGGTCTCACCCTGCA
CTCTAGCCTGGGTGACAGAATGAGACCCCTCTCAAAAAAAGACGAAG
TCGATAATCTGAATAGCCCTATATCTATAGAACTTAATAGTGCTGGGAG
ATATAGGTATTATTCTCTATTTACAGATGGGAAAATTGAGGCTCAA
GAAGAAAAGTCTATTGCTCAAGGTCAATGTGGCTAGAATATGGCAGAACCA
TGATTGAGATCCAGGTCTTCTGAATCTTATTCAGGGTCTTTTATGAT
ACCATGTTGCCTCTAAAGAATGCAGCTTCTTAATTACTAGAAAATTGTGC
CTGGCCAATTTAAATGTGAAATTTAACCCATTTTGTAAAGCACTATGGT
GGGGTTTGAAGCATAATTTAATGGCTTTGGAATACAGGTGTTTGGTTT
GGGAAAGGAAAAAATCTTTTTCCTTGGACTTCGACCAAACCTGG
GAAAAAATTAATTAATGTTGGTGGTTGTACCCCGGGCCAGAAACCA
CCATATGGGGGACTTCTCTATTGG

>Sequence 1383

GGTACTTTGTGTTGTTGGTATCCAAAATTAGGACTCTGAGATTCTTGTGT
ATTGAGAGAAATTTTAGTAGGAAACAGGACAAATTTGCATATGAAATGAA
AATAGTTATTACATGACAAAATATGTAGATCTGATTTCTAGAACTGAAT
TAGTCCAAAACAAGTAAGAGTGGGAAAAGCAGTAAAAAGTTCTTCTTGAA
TATTGCTGTTGTATCCAAAGTATTCTTATTTCTTTAGGTGAAAAATTT
CCATTACTCTTTTGTGATATTCTCAAAGAAAGTTTAGGATTTTACAGTG
TTCTGAAATACTGAATCTTAATTCAATATTTCAATAGAGTATTATTGATT
TGCTTCTTATCAGTAGATTTTAAATTTATTTCTAGGCTATAGATC
TTCTAAATATAATCCAAAGTAGTTTAAAAAGCAGATATTTAAACCAAA
GTATAAAGATCTTTTTCTGGAGCATGCTATTTAACAGTTTTTCTCTA

Table 2

AATTGGGTTTTGTTTTGGAAACATGAAATATTTGGTTCTTAAAGCAAAC
TTTAATTCTATTAGAGGGTTTTCTCGCTCAAAAAACATCTAAAAATTT
AAGTTAAATTGGGAAGAAACACTGGGTGAAAAAAAAAAAAAAAAAAG
TTCTCTCCCGGGCGGGCTCTCTAAAGGGGGAATTTCAACCAATGTGGGG
GCGTTCTAGATGAGCCCGTCTCG

>Sequence 1384

CCCTTGAGCGGCCCGCCCGGGCAGGTACCTCACTCATCTCATCCTTGGCTC
AGCCCTGCTGGTTAGTATTTAGTATTTATTTTAGTAAGATATTTGTGTCT
GTATGATGGTCAGAGTTGAACTGATCTGGCTGTGATTTTTTCAGTAATAA
AAAAAGTTACTGAATTTAATTGTTGAATATGATGCATATCTCATTCAATTA
CGATTTATCAGAAACCAAAGATTTAAATTGCCTAGATTTGTGGTTCTTTC
TCTTCCTAAGTTCCAGCGACTGCTTTCAAATACTATTTCTAAATTTCA
CCAAAGGAGCAACGAGGATAAAACAACACTCCATAAAGGCCTCTTGGGAT
GTCAGAAATCTAAATCTAAAAGAAAACAGACACAGAGCAAGACAATAAC
ATCACAAGCTAAAAGCCAGAGAAATTTAAATTTACCAACATCCTTGTGG
AGTAAGACAGTAAATATCAGCCTTGACGCAAGACAGCTCTGAGCAGCTGT
GGGCAAAGAGGTAAACCACTGGGGGTGCAAGGAGACTGTCTGCAGCTTGG
GGCAGAAATGGTGGGATCCAACCTTGTAATGCTTCATGTTTTACAAAAC
CAAAAGTCAGGTAGCAACAACTTATTGTATGTCAAATCAATAAATGTTA
CTTTCAAAAAAAAAAAAAAAAAAAGTTCTAAGACCTTAGCTTCATTC
AAGACTCAAAGTGTGTAGGAAAAAAGCTTATTACCC

>Sequence 1385

CCCTTCGAGCGGCCCGCCCGGGCAGGNACTTTATTTTTTTTTTTTTTTT
TTATTTTATTTTTTTTTTTTATTTTTTTTTTTTTTTTATTTTTAAAAAATT
TTTTAATTATTATTGAAATTTGGAAAAAATTAATAAATAATGGGGGGG
GGGGCAAAAAAAAAAAAAAAAAATGGTGGGGGGGCCCCAAAAAAGAAAAA
AAAAAATATAAATGGGGGGCCCCCCCCCAACAAAAAGAAAACTGGGGGGA
TAAAAAACAGAAAGGGGAAAAAAGATTTTTTTTCCACGGGGGA
AAAAAAAAAAAAACCCTTTTGGGCCAGAGAGAATTAATAAAGAGACACCA
TATGTGGTTGGCAAGATTATAATACAAAAAACAAGAAAAAGATTGGTG
ATCATGAAACCAAAAAATTTTGAGAAAAAAGATTATGTGGCGCCCA
CAATTTGAAAAAATAAGAGAAAAAAGACCCCCAGGAGTGGAG
AATCATTTTGAAGAGAAAGAAATACACCCGTAGGCGGGAGAACCCGTAA
AAGAGGAGAACACCACCCGCACGACGAGGACGTGGATAATAAGAGAGA
CAAAACTGATCAAAAGGTGGAAGAAAAATATGAGGAGAACACATGTT
CCCCAAAAAAGATCCTCGCCCAAAAAATATCACAAACAGAGGAC
GCCCAAAAAAATAAGGACAACCCGTGGGGGGTTCAAAAAAGAGAAC
TCACCAATATTGGGGCCCGCCACCCGACCTATTAA

>Sequence 1386

CCCTTGAGCGGCCCGCCCGGGCAGGTACGAAAGCAGTCATAGACAGTATGT
AAACAAATGAGTGCAGCTGTGTTCCAATAAACCTTTATTTACAAAAACCG
GCAATGAGATGGATTTGGCCTATGGGCCATCATTTGCAAACTCCTGATT
AGAACAACCTGCCATGAGTTCTTCCACAGGCTTGAACAGGAAGCAAA
ATACAAAAAGTACCTGGGCCGCGACACGCTAAGGG

>Sequence 1387

GGAACTTTTTTTTAATTTTTTTTTTTAAAGATTCCTTTTTTATTATAT
TATTATTTTTTTAATAAATAAATATATTAATAAATTAATATATAATAA
AATAAATTTATTAATAAATTTTATAAAAAAAAAATGGNANAAAAA
AATTATATAGGGAAAAAAAAAAAAAGGGGCGAGAAAAAATTATATAGA
AAAAAAAAATTATAAGAAAGAAAAAAGGGGGGAGGAGGAAGAAA
AAAAAAAAAGTCAACAAAAAAGAGACGCAAAAAAAAAAAAAAT
TTTTTTAAAAAAGGGGAAAAAGAAATTTGGAATAAAAAAAAAA
AAAGGGGGGGTATAAAAAAATAAATAAATAAATGTGTTAAAAA
AAAAACACACCCGAAAAAATAAATGAGCGTTTTTTTTTTGGGGGA
AAAAAGAGGAGAAAAAATTTGTGAAGAAAGAAAAATAATAGATAA
ACTGTGAAAAAAGGAGGTGGAAGAGAAAAAAGAGTCT

Table 2

CCGCGGGAGAGGAGGGGGAAAAAATATTTTGAAAAAGAAAATGATGAAA
AAAAAGAAGGGCCCGTATATTTTGGTGAAAGAAAAAAGAGAGG
AAAAAGAGATTTTGTAAATAAAAAAGGGGGAGAAAAACAAAAAGGAGGG
GGGGGGTAAATATATAAGAAAAAGAAGAGTGTGTATAAAGGAGGAAAG
GGTTTAAAAAAGGGAGAAGGTGAGGG

>Sequence 1388

GGTACTTTNTTTTTTTTTTTTTTTTTTGGTAGTAAAAATATCCCAATCTC
TTAAATGTATAGGTGAAAAATACTTAGTTTCGAAATGATTCCTTAAAAAG
CAACAATAAAAAATACTCTTCTCACTTGAAAGAAAAAACCCAAAAGGCAG
TGTTTCATACAAAGTCATGAAGAGAATTTAAATTAAGGTTTGGTTCCACT
TTGTCTCAACTTTAACTTTTAACAGTTCCTTATAGGCTTTTGAAACCTAC
TTTGAGAAGGAAAAAAGTAGGAATAACTGTTCTTCAAAAATTTTACAA
AAACAGTTTGACTCAGCTTCAGTTGTAA

>Sequence 1389

CCCTTAGCGTGGTGCGGCCGAGGTACTTTTTCTTTTTTTTGAGACGGA
GCATCGCTCTTCTCCCAGGCTGGAGTGCAATGGTGCTATCTGGCTCAC
TGCAACCTCCACCTCCCGGGTTCAAGCTATTCTCATGTCTCAGCCTTCCA
AGTAGCTGGGACTACAGGTGCCTGCCACCATGCTCAGCTAATNTTGTAT
TTTTAGTAGAGATGGGGTTTCAACCATGTTGGTCAGGTTGGCCTCGAACTC
CTGATCTCAGGTGATCCACCTGCCTCGGCTTCTCAAAATGCTGGGATTCC
AGGCCTGAACCCACCTGCCTGGCCGCATGTTGCATTTTTTTGGGTGTAA
TACCGACCGTATAATTGCCAGGTATGCTTTTGTGGACAAACTTCTTTTTT
GGGGGAAAAAAGGTTTCTTCAATCTTTTTCACTTTTGGTCCAGTTCCGG
GTTATCCCTGTTTTTTTTTCCACTTTTCTTCTTGGTACATGGGGAGT
TTTTCTTGAGGGCTTTAAAGCCAAGTCTTGAAAAATCCCGGGTAGGGGA
ACATCAAAATCCCTTTTGGGGTCTTTTTATACCCAAACCTTTACCCCT
AACACCTTCCGGGGTTTGAATGGAAAAGATAGGGGTTTTTCCCTAAAA
AGTTGGCCTTTCTGGTGGGGGATGAACCGGGTTTAAACACTTTTTTTG
TGGGCCCCCGCCCTAATTGGCAGGAATAAAACAATTAGAGCGGCCCCG
GGGGTTTATAACCAACACCT

>Sequence 1390

CCCTTCGAGCGGGCCGTCCGGGCAGGTACTCTCAAAAGCTAGGGCTGATGA
CTGAGCAACTACAGAGCCTGACTCTCTTCTACAGACAAAATAAGGAG
AAGACTGAACAAGAGACCTTCTGCTGAGTACCCTTGCCAAGATGTCTGC
ATATGCTTTGCCGACTTGTCTACTGAGTTAGACAACTTGAGATTGTTTC
CCTTCTTAACACAGATTGAAATGTAGGAGACAAATCCTAGCGGATAAA
ATGACATATCTTAAATATGAGTACTGTGGCAGTCTCACATGGAGGTCACG
AGTAACAGACTCAATGCCTAAATAGCTGTTTACCCTGCTTTTCTGAGCA
ATATTAACTTATACAGACTATAAAGGAGCAGGCCAAATGGTGAGGTTTT
TAAAGGATGTCAAACACTGTTTTAACAATACGAAGCCCCATAGTTTAAAA
GGATATTCAATCCTATTCTCAAACAATATGGAGAATTATCCATCTGAGAA
TCTATTGGGTGTACAGACCCTTAGTAAAGGAGGGTCTTAAAAAATTG
TATGAAAAACCCAGTTGCCCTTAATTTCTAACCATTTTATGGGATGTA
TCCAGATCGAGGGGCACCTTATGGGGGCCGATTCCAAAAATAAGGGTAA
CAGGGAACCCCCAAATTTGAAAAATAGGAAAAACTGTGGCCGAAGAAAGT
TTTAATTTTGGCCCCCTCTAATTTGCAAGGTGAGTTTCGTCCCTTTGTC
TTAAAAAAT

>Sequence 1391

GGTACTTTGGTTGTGGGTGGAGGGTGTTTTAAATAACAGCTTTACAGAGA
GATATCATTCAATAATCATAGGTTTTTACTTTTTTCTTTTTTAAAGACA
AAGTTTTACCTTCTGTACATTGAAAAATCTCTATATCTTGAAGATT
TGAGCAATACATTACGACCCAGGTTTGGGATTTGCATACTATTGGAGAA
ACTGTTTCTGAAGATAAACACTTCAAGAAATTTGAGAAAAATTAATACTAA
AAACCCGAAACATGAACACAAAGGCACAAAAACATTGCCCTAACATTGCA
AAAAATTACCTTAAAAATCCTGGATTGCTTGAAGAAGAAAAATAGTTTTT
TTTTGTTTTGTTTGCAAAAACCTTGAAGGAATGGCATGAACCTTTAAAAAG

Table 2

GGGGAACACCCTTCCAAATGGAGATTTTTTTTACCTTTAGAAGGATTGAG
CTTAAAAAAAATCTGGGTTTAAAATTAAAGAATTATTTTTTTTACAGT
GGGCAAAAAAATTAAAAAGAACTTAACGCTTTTCCTTCCCGAGAACCCC
CTTTTTTGGAAAAGGGGAAAAGGTTTTAAATAATTCAAAAAGAAAAATTTT
TTCCACTTTTGGTTAGACCAAAGGGGGTGGACTAAAAATGTTTTTTACCC
TTCAAAAAAATTTGGGAATTCAAAGGGGCTAAAAGAAACCTTTTGGTTC
TTGGGGGGCTTGCAATCAGGGAAAAAACTTATTTTTTTTGTGCCAAA
AAAGAAAAATTG

>Sequence 1392

TGGCGGAATTTAAAAAATCCCCCTCTAATCAGAGGGTGGAAACCCCTACG
GTTTTAAAGTTTT

>Sequence 1393

GGTACAACCTGCCCTACATTACTGCCTAAAGGCAATTTCCAGACTACACAG
ACAGAGAGGAAATGCACATAGAGCCCACTGTCTCTGAAAAGAGACAAGA
GAAATCTAATTTCTAGGGGGTAGCTAGAATTTTCCAGAGCAATGTCCTGGA
GAAGAAGTTGTGCACAAGAAGATATTCAAAAATCATCATGAGGGACCCCT
TGAATGTTTGGGAGAATACAAATCTGCTTATGTATAGGGTGAAGACCAC
AGAGCTGATCAAAGTGCAACTATCAGGATCAAGAACAATTAACGCGAAG
GTCAAGTGTAAGCTGAATAATTTCCCAAAGCTCATGAAGTTGCAAATTG
AGTTCCCAACCAACAGAATGAAAAGATCTTATTGAACGTGGAGGAATTTT
AACGGACCCCTTAAAAGGATTTTACTGGGGAACACTGGGTCTAAACA
CAAAGGTTCTTTAAACCAACCCCTTAACATGGCTTAAAAATAAGCCCGAAA
AAGATAAGCTTGTCTACAGGAACTTAATGGCCCACTAAAAAAAAGAA
ATTCAAAAGGGTTTAAAGGAAGGCATAAAAGCCAAACGCCCAACAATTAG
AAATTTGGAAGGTTATACTTAAATTAAAAAAATACTGTTCTCCCGGGCG
CCGTTCAAAGGGGAATTCAAACACTTTGGGCGGTATAGGGGTACCCAGC
TAGAACCCATATGTATAG

>Sequence 1394

GGTACTTTTTTTTTTTTTTTTTTTTTTTCAGTATGGGGTCTGTGTTGCC
AGGCTGGAGTGCACTGACTATTCATAGGGGCAAGCATTATGCACAACAGC
CTCAAACCTCTGGGCTCAAGTGATCCTCCTGCCTGAGCCTCCCGAGTAGC
TGGGACTATAGGAGTGCAACCACCGCCAAGCTGGCAATCTCTGTTTTCT
TATTTCTGATTCTACTTTTAGCTTTCTTAATATGCTGATATGTTTTGTT
TGGTATATCATATATTAACAAACAGTTTCATCTCATCCCCATCATCTATCT
CTAAGAAGCACCCCAACCATTTACACATTAGGTAAACAATGGCAGGCATA
AGGGAGTGAACATTCCATAGCCTCCTTTGATAAGCCACATCCTTACCTG
CTTTTACTGTCAAAAAGTAAATCTACATTGGGTTTCTGCTCCTAATAATC
AAACTTAACTTTTTTTTGAAGGAATTGGTGATCCAATAAATGCCTTCATT
TTTTTGAAATCTTGAATGAATGACCGGATTGAATCAATTAAGGTTTTACT
TATTAGGTTAAATACTTTTTTAAATCTTTCTTGAGAATTCAAAAACCCC
TTGGGTTTTAATCTAAGAAACCATAATTTTTTCCAAAAATTAAGAAATT
TTTTCTTCAATTGCCAAGAATTTTCGCTTAAGGCCTGCCCTTTGGGGGA
CACATTAATTTGGG

>Sequence 1395

GGTACGCGGGGGCGGAACTGGGGTTGCGGCGTCTAAGTGTTTCCGGTGGA
TTCCAGGGACTGTGCGAGGTGTTGGACTCTGACCTGCCTACGCTGGTCT
GGNAAGATGTTCTACCATATCCTCCCTAGAGCACGTAAATCCTTGCTGC
ACCTCGCGTACTGTCTGCCCAACTTGCTCAACACGGTGAAGCAGATGC
TCTTCACCGAGGTGGAGGGGACCTGCACAGGGAAGTATGGCTTTGTAATT
GCTGTCAACCAATTGACAATATTGGTGTCTGGTGTGATCCAGCCAGGCCG
AGGCTTTGTTCTTTATCCAGTTAAGTACTATGTGACTGATGAACTACTT
GTTGAGGCTGCTGGAGCAGGGGCAACTAACTTTTTTGCCATCAAATTA
AGTGACACATTATAATCCTTAAAGAATTCATTTCTTTTTTCTGGTCTTT
CTCTTTGATCATGGGATGGAACTTAGGCTGTTAAATGGAGTTTCTCTA
CTAAAAGTGAAAACGCCTTTTATACCTCCTTAAAAAATAGGATTTGTTA
AATCCATGGTTTGTGTAAGAAAAAATTTTAAAAATTTTGGCTGGACAGTT

Table 2

CCTTTGGGAAACTTTTTACTTATGGGCCAAAAACCTTTGTAAATTTAT
CTTTTGAATTTTTAGGCCCTTATTTATAAGGGTCCCAACCGGG
GATATTATTTTATATTTTTTA

>Sequence 1396

CCCTTAGCGTGGTCGCGGCCGCGGTACTTTTTGTTTTATTTTTATTTTT
TTGAGAGGTATGATTCTTCTAGAGATTTTTCTCATGGCTACTATAGAT
CANGAATGGGTGATTGGAGATTATTAGATTCTAGGTAACTTCTACCACT
TTACCCTAATACATAAAACTTTTTCTAAATAAATGATGGAAGGAATAAT
ACTTGGTTACCTGGCATTATTTTTAGTAAGAAAAAGCTTTACTAACCA
CTACATTTATGGAATAATTGTAGGGTAAGTATTTATAGGTCATAAAAAA
CACCATAATATAACGAATCTCATTTTCTTTAAATGTGAATTAAATCCTAA
CAGTCATCTTTATAAAATGACCATAGGCTAAAAATCTTACGTGTAAGT

>Sequence 1397

CACATGTGTGCGCTTAAATCATCCAACCTTTTCAGTCACTACTATGTGTAA
GGCAGTCTGCTAGGTCCAGGAATGTGGGGCTAAGTGAATAAGATGCAGC
TCCTTACTTTAAGTCTGGCAAGGAAGATGCATTTTTACGTATCTTCCAC
AGTGCAATTGTGAACATGCCATAAGGAAGGGATAAACACTGATGACAAAG
TAATTGCCAACTNTTACTAATTTTGCAAATTCAGAGAGGTACC

>Sequence 1398

ACAAGTTGTAACCCCTGATTCTGTGAATGTGACCTTCTGGAAGTACGGT
CACTGCAGATGTAATAAGTTGAGGATCTCAAGATGAGATCATCCTGGATG
CAGGATGGGACCTAACGATAATGGCTGGCGTCTTTATAAGAGAAAGGAGA
ATGAGATTTGAGACGCGACATGCAGAGAGGAAAGCGACATGGAGACGGA
AGCAAAGCCTAGAGTGGTTAACCTACAAACCAACGGTTGCCAGCTGTCAC
CAGAAAGCTGGAAGAGAGGCATATAAGATTCNTCCTTAGAGTCTCTGGAAG
AAACCAACCCTGCTGGTGTCTTGATTGCAAGCTTCTGGCTATTAAGAAAGT
AGACTTCTTGCTTTTAGAACAGATATCTGTTACACACAAATGGGTAGTA
ATTTTTAATGTCANGCCTTAAGAAAACTGATATATTAATGTAAGTTTCC
CTGTGGGGCTCTACGGGCCAAATTCTTTGGTTCAAGAGGCTTGGTAGAA
TGGTTACAGGTACCCTTTGGCCGGTAACCACGCCTATGGGGCGAATTCCA
ACAACAATGGCCGGCCCCGTTCTAATGGGATTGCGACCTCGTTACAAAC
CCTTGGCGGAAACCTGGGGCAAAACCTGGTTTCTGGGTGAAAATTGTTA
TCCCGCTCCCAAATCCCAAACAATATAACGGCCCCGAAGGCTGTAGCTGT
AAAAGCCGGGGCGGCCCAAATAAATTGCGCAACCACATAAAAGCGGTTGG
CC

>Sequence 1399

GGATAAATAACTTGTTACCCTGGGACTTTAAGGGTCGGGCACCGGGAATA
GGCCACCTTAAGGGGGGTTATCCGTGGGTCCACACCTCGGGGATAACC
CCAGAAAATACATTTTGGCAAAGGCCGCAAAGGCCCTGAACCTTTAAAA
GGCCT

>Sequence 1400

GGTACTTTTTTTTTTTTTTTTTTTTTCTTTCTTTTTTTTTTTTTTTTT
TT
TT
AATTTTTTAAAAAAAATTAAGAAAGAAATAAAAAAGGGAAGGGAAGGGA
AAATTGGGGGGAAGAAATTCAGAAAAAAGGTAATAAAATTAAAGGG
AAACATTTTTTTAAAAAACAACAAATTTCAATTTTTTGGCGGGCT
TTAACAAGAAAGTTTGAAAAATCCAAATTTAAAAAATTTAAAAAAGAA
AGGTTTTTTGAAAAAATTTGCAAAATTTAAAAAAGCCCCCCCCAA
AATTTACCTAATTTTAAAAACCTTTGGAAGAAAAAGCCCCCTCCCAATA
AAAAATCCAAAAAAGAAAAACCCCTTTGGAACAAAAAGGAAAAAAGAA
AATTGGTTATTTTTTAAAAAATTTTTTTTGCACATTTCAAAAAAAGAA
AAAGAAATCCAAAAATTTTCTTATAAGAAAGGAACCCCCCGGCCCC
CCTAAAAAAGAAAAAAGAA

>Sequence 1401

GGTACTCAATCAGATGTTAAATTCTTCAATGTAAATGCTCTGTCATGCCA

Table 2

TCCTACCTCCTGTCTCCCCACCCCCTCACACACACCTAAAAGCACTC
>Sequence 1402
ACTTTTAAAAATATATATTTTCTAATTTTGAAACATTCAAGCTGCGCATAA
TGGTTACACCTGTAATCTTGGCTACTTGAGAGGCTGAGGCAGGAGGATG
GCTTGAGGCCAGGAGTTCAAGACCAGCATGTGCAATACAGTGGGACACCT
TCTGTATTTAAAAAAAAAAAAAAAAAAAAAGGAAGGAAATGTTCAAAT
ACACAGAAAAGTTGAAAGAATATTATAAAGTGAATATCTGCATACTTTTC
CCCTAGGTTACCTGTCACCTTGACATGCCTTCTGAATTGTACC
>Sequence 1403
GGTACTTT
TTTTTAGAAGGGTGGTATTATAACATTTATTTAAATAATGCTGGGGGTTA
ATAGAAACCGCCAAGAACCAAAGAATTTAAATGCAAGCTATTTAAATCC
CAACTAAAACCCAAAAGGGTCTAATGTTTTTCATTCATTAATACTAAAA
CCCCAAAAAGACACTACACCAATGTTATAAAGTTCCTGCCCGGGCAGG
CCGCTCGAAAGGGCT
>Sequence 1404
ACTTTAATTTTTTCTATTATGAATTGCTTATTTGCTTTGCTCATTTCTC
TAGTAAGCTGCTTTTGTTAATTTGTGAGTAATTTATTCTAGGTATCAGGC
CTCTGGCATGTTTTCAAATTTCTAGTGTCTTTGTCAAAGAGAAATTTTA
ACTTCAACATAAGTAATTTGTCATCTTTGCTCTTTAGTTTTGTGATTTT
AAGGACATAATATCTATTACTTTAAAGTATTGAAAGCTGTATGTATATT
CTTCAACTAGCCACCTTATTCTGTTCTAGAGTTGAATTTCTTAACTCC
AAAAACACACAATAATTTTTAAAGTCTTGATCAAACCTGTATCTTCTG
CATAGTCTATTTTTCAGCATTCCATTAAATGAATTGAGAAAAAGGAGGTA
CC
>Sequence 1405
ACCTGGCTACAGTAAATGCTCAAGGCCCTTTGTTATTATTTTCAGATGGTC
AAGAATAAATGTTTTTCAAGGATCTTCTTTTGTAGACAACCTGTGTAGTC
ACAGTTTAGAGTCGTAAATTATCTGCCTGGCAAGATACTTT
>Sequence 1406
GGTACATACAATAGAGTATTATTCAGCCTTAAAAAGGATGAAAAAATCCT
GACATGCTAAAAATATAAATGAATGTTGAGAACATTATGCTAAGTGAAATG
AGCCCATCTAAAAAGGCAAATACTGTATGATTCACTTAACTGTGATATC
CAGAGTAGACAAATTCATAAAAAACAGAAAGTAGAATAGAGGTTCCAGGG
ACTGGGAGTTACTTGATATAGAGTTTCAATTTTGCAAGATAAAAGAGTTC
TGGATATTGGTTGCACAGCAATATGAATATACTTAACACTACTGAACTGC
ACACTTAAAGATGGTTAAGATGGTAAATTTTGTTAGGTGTTTCTTACCAC
AATTTAAAAAAAATTTTAATTAAGGAATTAATAAATTTACAAAATACT
ATTCATCATTGTGTTTCCAGTTAATATTCAACACAGCAGTATTTTCAGGT
ATAGTAATTAACCTACTTTTCATTTGAAAAGATGTCTATAGCTTAATAAAT
ATCAAACCTCTTATTCATACTTTTGTGATAATCTAGGAGAAACCAAGCAC
CCAAATGGAAATGGGGTTCTCACTACTTCACCTGCCACCTTCAAATAGA
AGCCGGATTTACACTACCTATAG
>Sequence 1407
GGTACTAGAAGACCTTCTCTGCCACTCTCTCCACATGAGAGAGTCAGCTG
CCCTTTCTCCTGTGCCTCTGCAGGAAGAACTCTCTTGCATGGCACATCTC
AGCTCCTCATTGAGGGATAGTTTCTTTGATAAGAAACCTGGAGTCCATT
TACTCTGACCTCTCTTTAAATCTATATCCAGAGCCACTAGCCCAGGAAAA
ACTTGGGTGACCCGTAATTTCTTCTCTCTGCTGTCTTTTGCTCTTACG
CCCCACCCAACTCCCTTAAATTTACAGGCTTATGACAGTTTGATGT
GCTCAGCCAATGAGCAGAAAACCTGGAAGAATTTCTGGACTTTAGCCCA
CCAGTTTGTCTGGTTGACTAACCTGCTGAGAGCTAAAAATGGCACCCATT
GCCCCGTGCCTTCAGGCAGTCTCTGGGGCAGAGTATGCCACCATCCGAA
TATCAGGCACTGAGTGGGATGTGGGTGATGCTCACATGACTGGCTAGAGC
TTTGGGGGTGGGGAGGGGGGGTAATACTACTATTTATTTGGCCATGATCTCT
TTACGCCCTCTTTTATTTTAATTAATAAATGAATCAATTAATAATTTC

Table 2

AGCN

>Sequence 1408

GGTACCCTTTATAGGAACCTCAAATTAATAAAAAAATGTCTTTTAATGGA
TGAGAGGGAACCACTATAACATGAGTCCAAGCCCAGAACTTCTGTCTA
TACAATATTTTTTTTTTAATTTTGGAGATAAAAGCTTTAAGAACTTTTTG
AGTTAATTATACTCATAAAATGAGTTTCTTTAATAAATTAATTTTATTG
TGTAATATGATTATTACATAAAATGTGTTTTGAATCAATGCAGTTTGG
GGATGAATATAATTAATAATATGTTTAATACTTAGAATTCAACTAATAAA
AATTTAGCCACACTTACAAGGGGGAGGAAGTCCCTAGTTTAAATGTATA
ACTGAGTGGTAGATCAGT

>Sequence 1409

GGTACTATGTGTGATTGTTACTATTACAGTTAATCCTTTCTTTGTGTGA
GCTTGTTAATGCAGTGAGGATTGTAGCACTGTCCACTGAGTCTCTGTGCA
ACAACCTAGTGGTGTGGCAGGGGTTCCGGTGTCTGGCTCTGATCTTGGA
CGCTGGATAGTCGTCTGAGTATCTTCAGTGCCCAAGGCGACGGCTTTGGT
TTGGGTCACAGGATGGTGTGGTTGGCCAAAGTGTCTGCTAATAGTTTTAGG
AGAGGATACTTATTGCTGCTGCATGATCAACACTGGTAGATTATGGTTT
CTGAGAACAGATGGGGCACACAATTACTAGAGCGCCATTAAACAGGTATA
TACAAGTACCTAGCACGGGCGGCCTGCTCGTTGGGCGAATTTCAAAT

>Sequence 1410

GGTACGAGCCTATAATCTCACCTACTCGGGAGGCTGAGGCAGGAGAATTG
CTTGAACCCAGGAGGCAGAGGTTGCAGTGAGCCGGGATCATGCCACTGCA
CTCCAGCCTGGGCAACAGAGCGAGACTCCATCTTAATAAAAAAAAAAAAA
AAAAAAAAAAGAGAGAGAGAGAAGGAGGGGAGAAAGTGAAGTCATAAGTGT
AGACCACTCCTTCTGAGGGAGAATCCACCCACCTTCCTCCTAGCTTCTG
GTGGTTGCTGGCAATCTTTGGCGTTCCTTAGCTTGCAGATGCAGCACTCC
AATCCCTGCTTTCATCTTCTTAGGGTGGTCTCCCTATGT

>Sequence 1411

GGTACTTTTTTTTTTTTTTTTTTTTTTTGTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTAAGGGAGTAAGTTTTTTAATCCACTTAAAAATACAAGAGCA
CAAATCCACATTTATTATTGATTTTTCGTTAGTTTAAATCCTTGAGGGG
TACTTTTTTTTTTTTTTTTTTTTTTGGGGGAAGATAGAAAATGTGGGGC
TGATAATTGGCACATCAGTGTTTAATCCGCCCCCTGCTTCTGCGGAGAA
AAATGTTTTGATGTTAATACTACCAACATTAGTCTTTTAGGGGGTGAAA
GATTGCCCAATGGGGGGGGAGGAGATCAATTTTTTGGGGGGGATTTTTG
AGGGGGGGGGGTGATCAGCAACAACCTCTTAATAATTGGCGGCTTTATGA
CGCCTACTGGGGGTGATAATTTCTACTTTTCTACGAGGTTTTTTTACT
AGCGAAAAAAGAGTTGCTCTTTTTTGACCAACAAATTAATCAACGAGGT
GTTTAAGGAGGTTTGGCGGCATATTAGAAGGTGCAATATTATTTTGGT
GAACACCCTTTATCACCATGCTGGGTGTGTTTGTCCCCCTTATTGCTGG
CGGGCGGT

>Sequence 1412

ATTGCGCCTTTTCGAGCGGGCCGCCGNGCAGGTNACGCGGGGGGTGG
AAAGAAAGTTGCTTTTGAAATCCAGCCTTTCTTTGGGGGTGCAGGAACCT
ACCGCTGGGACCATCCTGCTTTTTCTTAGGGAAAAAATACCCCTTTT
GGGTAGGAAGGCCCCCAAGAAAAAGGAAAAATTTAAATCAAAGCCCCC
AAGAAAAATCCCCCACAAGTCAATTGGCCCTTTTTTGGGGAAAAA
GCCCCCCCCAAGGCCCAAGT

>Sequence 1413

ACTTTTTTTTTTTTTTTTTTTTTTGTTTTTTTTTTTTTTTTTTTTT
TT
TTTTTTGGGGGGGCTCCAAAAAATTTTTTGGGGAACTTTCCAAAAAT
TTAAAAAATAACCGATTTTTAAACTCAGGAAAAAGTTAAAAATTTTTTA
AGGCCCCTGAAATGAACCAAAAAAATTTTTTTTTTTTTTTTACCACCA
AAACCCACAAAAATTTCTTTTATAAAAAAAAAAAAAAACAACACTAGT
ATGAACCAACCTAGAGGGAATTCACCCCAAGTGGGGGGGGTAAATAAGT

Table 2

AATCCCCTCCACAGACACACATTGGACAAAAATAGAAAAAACTGTTTC
TGAGAAAAAAATAATTGCCCGAAAACTCAAAACAAAAAAACCCGAA
ATAATAAATTGGACACCCCGGGGCTCAAAAAATGACACAACACTCATT
ATTGCGGTAGCCCAACCCGACCTTTTAAAAAGAGAAACACTATTCTGCC
CCTTTATTATAATATGACAAACCCCGAGAAAGAGGGTTTCAATTT
GGCCCCCTCN
>Sequence 1414
GGTACGCGGGTCAATTA
>Sequence 1415
CCCTTCGAGCGGCCGCCCGGGCAGGCACAACCTTTCAGGATGCAGTTCTT
TCATGACCATAGTGTTTTTTCCTATTACTCTTTCACTTACTCACAGGA
TTCAACCCATCTGACTCATCTGTTCCCTCCAGACTCTTCTTGATCTT
TATTTTTTAAATTTACCAGAGAAGAGCAAGCACGTGAGCAGTGAATAACT
TGCAAGGATGCAGACTTTTTTATTTTGCATGCTACTTTTATAAAAAACA
ACCGTAACATAAAATAACTCTTAAATGAAAACTCAGAAAAATATTAAATCT
ATTCTTAAAAGGGTTTAGAAAGAAAGAAAAGACAGCTGTAGGTTATTTG
ATTTTCAAGTTTATCAAATAAAATTCAAATAGAATTGGCAAATCTTTAAT
GGCATATGAATACTTCTATCACTTAGTAATTAATTTGAACAGAGATGTTA
TTAGGGTCTTAGTATCACTCCATCCTTTCCCTCCATCTTTATACAAAA
AGAACATACAGAAATTTAACAAGATATATGACTTACTCATATGTTTTAT
AAAAAGTATCACTAGCAGGTGTCTTCCATTTAATCTAACANAGGTTTAT
GTAGCANAAGATACATGAATGAAGCCCTAATCACAGAATCTN
>Sequence 1416
GGTACACGTGTTTTCTGAGTTCTGGGCACAGCTTTAGCAAATTAATCAA
ACCTAAGAAGGGGGTCTATGGGAACACTGACTTGAAGCTGGTTGGCCAGAA
GTTCTGGATGAGGCCTGGCCTTACAACACTAGTGTCTGAAGTGGGGCAGTC
TTGTGAGACTGAGCCCTCTCTCAGCCTGTGGGATCTAATGCTATCTCCAG
GTAGATAGCATGAGAATTGAATTGGATTAGAAGGTGCTCAGCTGGTGGTA
TCTTCTGCAGAACTGATTGCTTCTTGTGGTGGGGAGAAATCCCCACACA
TTTGGTCACAGAAGTCTACTGTGTTGATGATTGTTGGTGAAGAGCAGAGG
AAAAGCAATTTGATTTTTCTCCACAAGGGGAAGAAAAATGTTTCATGATTC
AACTAATGATTTACCTTTTATTGTAAGGTTATCATGCTCAAGTATTAATG
TAGGAAGGCTNTTTTGATGCAAAGTGTGTGTGTGTGTGTGTATATA
TGTGTGTGTTGGAGAGGGCTAACTTAAAAAGGGGAATGTATAAGGAAGA
AGAAATGGTGTCTAACTTAANACCCATNTCATCTGCTAAATCGTCCTA
GTGAATTN
>Sequence 1417
GGTACAGATCACACCTTTAAGATGGTCTCCAAACAAAAGATTCTACAAC
TTTAGTTATTTAGAATTAGCTTTGAGACTTTGGGCAGGTCACAATTTTC
TCTATCTCCTATCCTGTAACCTCAGAACCCAGACACACTACTAACATCATA
ACATCCAAACTTGGTTTTTGTTTTTTTTAAACAGATAAAAAATGTGACTG
GGCAGAGTGGCTCATGCCTGTAATATCAGCATTTTGGGAGGCCAAGGTGG
GAAGATCGCTTGAGGCCAGGAGTTTGAGAGGGGCCTGGGCAACATAATAT
GATCTCATCTCTACAAAAAAGGAAAAAGGCAACATTAGTGG
GGTGTGGTATTGAGCACTGTAGTCCAAGCTACTCGGGAGACCGAGGCAGG
AGGATTGCTTGAGCCCAGGAGTTCAAGACCAGCCTGGGGGAAAGTTTCTA
GTGGGCTGCAAAACAGCATCTAGCCATTGTCCTCTCAATGT
>Sequence 1418
GGTACTAATTTACACCAACAGGTGAAGTTTCCTAGAAGAGTCGTCAACTG
GTAACATGGGATAGCTGCTAGAGGGACTGAGGACTCTAAAGAGAACATA
AGCAGCAAATTGCAAGAGCATCTGTAACCTGCTGGGCTAAGGCAGGGGACC
CAGGAGGGAGCAAAATCCAGGAATGGGGTGGCTCCCCAGGGCCGAGATCCA
GACCTCATTTAAACAGGATTTGGTCACGGCCCACTGGATAGTGGGGAGCC
TGTGGGGTTGTCCATGTGGTGGCTGGCAAGCAGGGGCCTGCTTTCTGGGG
GTGCTGGTGGAATCACTAGACAGTTACCTGTGGGTGCCTGCAACACTT
TCTGGGCGTTATAAGGAAGATGGCCTTAGTGTGCTAGTGAACCTCTCTG

Table 2

GAAGCTACCTGGAGGGTGATGCCAAGAGAATTTGCTGGGAAGCCATGCTC
TGGGGAACCTGGTGGAACTCCCTAGGAACTGCCTGTGGGTATGGTGCCAC
TGAAATTCAGTGCAGAACCTCCTTCTGCAATTTTCTTTCTCCTTTTTCC
TTCCCTTTTTTTTTTTTGGCTTGCAAAAAA

>Sequence 1419

GGTACACATAAGTTCATTCTTGGCTTTTTAAATTTTATGGAAAGACTAAA
TACATTTGTGTCTATTAATCAAAATATGAATTTAGAAGGAAATAATTTTG
TGAAAAAATTGTATGTGGTAAAATTTTACCTAATTTAAATTTGTTGTTT
CATAATTTTTTTAAAAAGAAAAATTACAGAAATAAGACTTGGGGGGTGGG
GGTTGAAAAGTGGTGAAGAACTAAACAAGTAGAAGAGGATTTCTAAAGC
ACTGGTCTCATGAAAAAGTTTCATGTGTGACTGGGTCCACTGAGATTGA
AAAGAAATTTGTTATACGATATTCTAAAAATTAATGTTGCTGTCAGGGA
TGACATGATACAGGACCAGAGTCTGTGTAAACAACAAAGTTTCTTAAAG
TATTGATACACGCTTTTAAAAATTGCAAGAGGTTTAAAGTTTAAATTCAAA
AATCTGTTTAAACAGCCATTTTGT

>Sequence 1420

GGTACACCTCAGAGAGGACTTGTATCTAGACCAAGAGGACTATGCCTGTG
GGCCAAATCTAGCCCAAGGCTTGTGTTTTGTAAAGTCCCTGTGAGCTAAG
AATAGTTTTCATACTTTTAAAGAGAGAGAGAGAGTGTGTGTATGTGTGT
GTGTGTATAATGTGACAGAGACTTTATATGGCCCTCA

>Sequence 1421

GGTACGACGTAACCTCCAGACATAGGCTTTAGACGTTCTCATGCCACCCTA
TCTTCAAAACCACAGAGAGTTCATGAGCCAGTCTTGGCCATCTCCAATCA
GGGAACCTCTAAAAATAAAATCTTAGCAATCTCCTTGGCCAAAACTTCA
CCCCATCTTGGAAAGGGAGGGGAGAGAGAATGTTCTGATCTATATCTGATG
AGGGCGTGTGGTTGGGACCTGAGCATCCTCCTGGTTGGGCTAGTGATGGG
GAGAGAGGGCTGTACTCACGACTCCCTCCAACAGAATACCAGAAACAGG
CAGGCAGCTCAGGTGTATGTAAGGATGTGAGGCCAAGAAACCAGCCCTCA
CCAAGTTACCCCTGTAAATCCTTGTCTCCCATGCACCTCTACTTTGAGT
CAGAAATGGATTCAATGCAGGCTCAGTTGTTGTATTATGTGAATGAAT
GAACGTAACCAAGCACCAAGAGAGCCCTAAAGACACAGTAGACCTCCTGT
AGAAGGGCTCTGATGGACCTTCAAACATTGCTCCTCCAACNTATGGTGC
ACACAAATCACCTGTGCATGTAAAAATGA

>Sequence 1422

ACCAAATCTCTTATCAGTCAGGGTTCAACCAGAGACACAGAACCAAGTAG
GAGACACAAACCCACGCAGGCACAAGAAAGGAGAACAAACCAACAGAAA
CCCAGGGATGAGTAATCGGAGGGGAGCAGCAAGCACAGGGAAAAAGATGAC
TGGGAGTCAAGAACTTGGGGTTCAGTCCCAGCTCTGCCCTGTCAATTTT
CCTCACCTGTAAACTGGATCAGAAATCTTACAAAAACAAAAACAAAAA
ACCTCTTCAGTATTTCCCTCAAACAGGATCCTCCTCACATCTGTATTTAT
ATTTAAAAATAAAAAACAGAAAAGAAAAAGAACCAAGCATGACATCATTAG
GTGTGTGTACC

>Sequence 1423

ACATCATAGGACTAGTCACTTGTGCTTTCATGGATACTGCCTGGGTGGGG
GTTCAACAACACTTATAAGTTAGAGAGTTTGAGAGCCAGTGGAAGTAAGT
GGAAGTTGTTCTGAAATAAGCCCCTGGCAATTTTCTGCAATGAAAAGGAG
CAGAGGTCAATTTCTTATAATGCTCAGCCTCAGAGATAGAACTGCCCCG
CGTACTCTGGTTCGGGTTCAAGTGAGAGGCTTTTCATGAAAATCTTAGGA
TTGAAGAGCTCTAAGTTTCAGGATATCTCAATGTTTCAGAAAAGCCTGACTAA
AAGAAGCCAAACCAAAACCATTTAATGTGAACACAAACCTCTTTTCTTTT
AGTAAGTTTACTTTTAAACAGAGTGAAAGAAAATAAAAAATTTAATAGG
CTAAACAAGTCAAAACACCCATTCTACACTTGATAAAACCTTCACAAAAG
TCAACTGAAGTAATCCGGAGCTGAAACTGAATTGGGCCGATTTTCAAATG
AATCACAAAAGTCATGTAACACAAAACAAAGTCGATTATATTTACACACT
CACAAGCCCTCTAAAAATGTGCCCAAGAAGCATTACCTTTGTTTGGC
CATTTCTGAAGATTTACATTTTATTTTATAGATAGCTTAACATTTTATTGA

Table 2

GGGGTTCTCTACATGCGGTATGGTTTGTCTTGGCCCGAACACCCTAGGC
GAT

>Sequence 1424

ACTANTTTTTTTAAAAAAATTTTTGGAAAAATTTAAAAATTTATTTT
TACTTACTTTTTTATTTTTATTATATTAATATAATATTTTAAGGCAAA
AAACATGCTTTAAAAAAAATTTTAAAAAATCCGGGAAAAGGTTTAA
AAAAAAAACCTAAAAATCATTAAAAAATTTAAAAACAAAATTGTTAA
AAAAAAAATTTAAAAAAAATTTGGGTGTTCAAAATTAATTTAAAAA
CAAAAAAACTCTATCCAAAAATTTAAATTTTAAAAAAAATTTAAAAA
AAAAGCTCCTTAAAAAAGGGCTTAAAAAAAACAATGTGAAAAAAAAT
CCATTTTATACAAAATAAGTTTGTGTTAAAAACATAACTTGAACATAAAA
AAAACCTGGAATATTTAAAAATAAAAAATTTAAAGTTCTCAAATAAATC
CAAAAAAAAATTTAAAAAATGTACAAAAAAAAGTTCTTTGTCCAA
ACACAACTAAAGGCAAAAATTTCAAAAAATATCGGCAGTAACATAAGAA
GACCAAGTCTGAAAAAAAATCGGAAAAAAAATCAACAAAAAACTACGCG
TTTGAAAAAAAATAATCTCCCCAAAAATCAACAAAAAACTACGCG
AAAAAAAATTTGAAAAAACAGAGCGCTAACATGACAAAACTCAACAA
ACAATAATGTTCCCTAACCAAAA

>Sequence 1425

GGTACTACCACTTAACAATATTAAGTCTTCTGATCCATGGCCACCAAAT
GTCTTTCACCTATTTGGGTCTTCTTTAATTTCTTCAACAATGTTTTGT
AGTTTCCAGAGTAAAAGTTTTATGCTTTGTGGCTAAAGTTATTCCTATCA
AATGTTTTCATGCTATTGTAATGGGATTGCTTTCTTTTCTTTTCTTT
TTTTTTTTTCGAGAGAGGGTCTTGCTCTGTCGTCCAAGCTAGAGGGCAGA
AGTGCAATCTTGGCTCACTGCAACCTACACCTCTGGGCTCAAGCGGTCC
TCCTGCCTCAGCTCCCTAGCAGTTGGGACTACAGGCACATGTCAACCAA
AAAAAATAATNTTGTATTTTTTTGTAGAGACAGGGTTTCAACATGTGCG
CTAGGAAGGTCTTGATCTCTTGACCTCGTGATCTGCCAGCTCGGCCTTC
CAAAGTGTTAGGATTACAGGCGTGAGCAGTTTCTTTTGGTATTGCTTTA
GAAATGGAATTTCCCTCTGCTGCCAAGCGGGAATGCAAGGTGTGAACTT
AACTCACTGAACCTTCACCTCTGGGTTCAAGTGAATCTTTTGGCTTAGA
CCTCCCAATACCTGGGATTACAGGTATGCGCCACCTTGACAGCTAATTT
TTGATTTTAAAGAAAAAAGAAGGTTACCTTATTGGCCAGCCTGGTTTC
TGATTTCCAACCTTC

>Sequence 1426

GGTACGCGCTTCAGGGCCCTGTTCAACTAAGCACTCTACTCTCAGTTTAC
TGCTAAATCCACCTCGACCCTTAAGTTTCATAAGGGCTATCGTAGTTTTC
TGGGGTAGAAAAATGTAGCCCATTTCTTGCCACCTCATGGGCTACACCTTG
ACCCCGCGT

>Sequence 1427

ACATATTGCTTAGAGCAGTGCTTTCAGATATGAATCATTTCTAGAATGGA
TTATAGAAGGATGGGAGCTTTAGTATTTAGTAGTTTCCTTTCTTCTCCCT
AAGTTTACAATCCATTTTAAAAAATGAATGAATTAAGTATCTCCGAAACA
AACTGGCAATTGCTCTGAAGACAAGTTTAGCAATTTCCGTGAAATAATTC
TCTGGCTTCGGCCAAGGCCACTGATTGATTCTAAGCAAAACAACAAATC
CCGTCAAGGATCAGGAATGATGGCAGAGTGGCCCTGTTGGCTTTGTAGCTA
AATTGTGCTCAGCCAGAGAAGAACCACGACCAACAGAGCCCTAAACTGAA
GTCCCCAATTCTGTCTACTCTACCGTGCTGCACAAAACCTAGTACC

>Sequence 1428

ACAGTCTTATTTTCAGCCTAAAGAAATGGACACTTCTCAGCATAGGCGGA
CGTGATTGGTTGTGGACAATCCTTTTCTTAACCAGGATCCATAATATCAC
AGACAAGGTAATATAGCACTGTGAAGGATGTGTCTTTCTTCAATGGAGC
CATGAGAGATGGTGGTTTTTAAAGTTGATTGATGTTGGATGTAGTAAGT
CCTGTGGGAGAGAATTTTTTAAATAAAAAATACTGTTTAAAGTGTCTC
TTCTAACTTGATCTCTACCTTTTCCCTCTCCACTTCTAACTGCCCCCA
CCAGCTACACTTTCCAGTTTGAAATAATGAACAAATCCTTTTGCTGACA

Table 2

GACCAAACCTTAGTTCCTGTGGGCAAATGAGGGGTTTTTTCCCCCAACA
ATGAACAATTTTTTGAAAAAGTCTCTCAAAGATGTTCTTATTGGAATAA
CCCTTCTTAAACCCAAACAGCCTAAATGATTGGATAAATGTTCCACAAGA
TCAAAGAGCCACCCAGGAATTTACAGCTGGACTTCATTACTTGATTACT
TTGCAAAAATAGAAGCCAAAGCTTGACTTAACTGGTAATAGACTTAAAAT
TTGAGTTTGCTCTTGGTGGGGTGCTTATCCCCTTTTACATGACAGAAGT
GTTGGAGTAATTTTATGTGGCCTGGGTGGATGGCTTTTTTTCTCACTA
TCCAATAATTTAG

Table 3

>1.1
GCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTGGACATACTGAGAGAA
TTTGGAATTATATGTTATGGTAGAATAAAGATCGAGGTCCATTTTCTAT
ACATGAAAATTTAAATATTTAGTTTGGGATTTGAGACTTCTATTAGGCCT
CTGTATTTCTTTCTAGTTTTTTCCCTACCATTCTTTAATCGGAGTATCCA
AGCCCAATCACCCTGTATCCTATGTCCTAAAGCATCTTGAATTGGTTGTT
CATGTTTTTTCTTCATGTGGAGTGTCTTTGCCACCCTCTTAGCCTATCT
GATCCCACTTAGCCTCTGAGGTTCTGTTAAGTTCTCACCTTCTTTATGAA
TTTTCCCGAGCCATAATGATCTTTTTAACCTCTTTGAGCTTTTACTATT
ATACTCTTTACCTAACCAACTAAATGGTTTTT

>2.1
GGCGGCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATC
CGGACAATTATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGA
AACTATGATCCTGCTTTACATCCTTTTGGAGTCCCACGAGAATATATAAG
AGCTTTAAATGTACCAAACTGGAACGAGTATTTGCAAAACCATTCCTTG
CTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGCGAAAGCATCCA
GAGAAGCTGGCTACTGTCCTTTCTGGGGCGTGTGATGGAGAGGTTAGAAT
TTGGAATCTAACTCAGCGGAATTGTATCCGT

>3.1
GGAGAGGAGTCCTTTACTTTAGAGTCAAGCTGAAGGAGCATCACAACCCCA
AAGACTGTTATGTTGTGAAATTTAGGCTGTGTTTTAATAACTGATGAT
GATAGGATGAAATAGTAATTTATTGATTACTATATCTACTATATGTCCGT
AAGATAGCAGGGTCTTTATACTCGGAATCTCATTGATCCTCATAGTTTT
TATTGGTTATTATTATCCTCATTTTACAGATACAGAACTGAGGCTTCAG
AGAGGCTGTGTAATCAAGAGTTTGTATGCCTTTCATCTGAGGAGGTTGAG
GACAATCCCAAGTTAGAAAAATAATGTCTTTAGCATTATTTTTCTTAA
TGTTTGAATATTATAAGTTACTCAGATAATCTATTGGAATTTCTTCAT
GGCAGGGGGAA

>4.1
GAGGTACTCAGTTTCTTATCTATAACATGGGGATAATATTCGTAGCTAC
ATCGTTGTTATGAGGATCAATATCTGTAAAGCTCTTAGAACATGCATTTT
TCTTGACT

>4.2
CTCAGAAATTAAGGCAAAAAGTCTTACTGACCATGTAAAGGAAATCCAAC
AATTATAAACAGTCTCTGCCTTTAAGGAGCTTATAGTCTAGTTAAGAAAC
CAGA

>5.1
GGCGGCCGCCCGGGCAGGTACCATGGAAACCCACTCTTTCATTGAAAGGA
AATTAGGTTGAACCTCCAGGAGCCCGTCAGAGTCTGAGGAGAGGCTGGCT
TGATGTCTAGATACGACGACAGCAAGGCTGCTTAGAGCTAACAGCGCATT
GCCTTTCACTACCGGACTCTCCTTTGCAGCTGCCTTGGTGATCTCATCAG
TCAGCATGTCTCTAACCAGAGCCAGGCTGTGCTTTTTTGT

>6.1
ACCTATGACCATCTTACATTATTTTATGGGTGGGGGGCATTGGCTGTGG
AATGTGGGCAGTAACCTGCACAGTCAGTAACCGTGTGAGTAACGGGTGT
TGGCATCCCCATTCTGGCACTCCTCCTCTAGGTCTCACCTACACGCTGGT
TTGTGGCGGAGGGGCAGGTTGGTGCCTGGGGTGTCCGGGCACTGGCTGT
GCATGCCCTTCTCCTCTTCTGTCTCTTGGCCACCTTTTCAAAAAGTCAC
CAGTGACCAATTCTCCAGTGTTTCTTTGGGACTCAATGCCCTTGGGCTTG
GCATTGGGTAAAGCCGACTGGCCAGTTTCATTCTGACCAGCTCTATAGTA
GTCCGGTGTGGACCTCTGCCCTCCCTGCTCTGCGGAAGCTTCCTCAGCCT
TTGCTTCTCACTATTTACTATTTGCGGGGCCTGGGGGTAC

>7.1
CGCGGTGGCGGCCAGGTACGGATCAATTCCGCTGAGTTAGATTCCAAATT
CTAACCTCTCCATCACACGCCCCAGAAAGGACAGTAGCCAGCTTCTCTGG
ATGCTTTGCCAAGCAATTGACTCCATCACGGTGACCATCCAGCGAAGCAA

Table 3

GGAATGGTTTTGCAAATACTCGTTCAGTTTGGTAGCATTTAAAGCTCTT
ATATATTCTCGTGGGACCTCAAAAGGATGTAAAGCAGGATCATAGTTTCT
TGGAACTCTCTGTAAGTCCAATTGGTTTCGCGGACATAATTGTCCGGAT
TCCGGCTCAGCATCTTCACCTTCATCTCGGTTGCTCTTC
>8.1
GCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATTATGT
CCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTG
CTTTACATCCTTTTGAGGTCCACGAGAATATATAAGAGCTTTAAATGCT
ACCAAACCTGGAACGAGTATTTGCAAAACCATTCTTGCTTCGCTGGATGG
TCACCGTGATGGAGTCAATTGCTTGGCAAAGCATCCAGAGAAGCTGGCTA
CTGTCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTTGGAATCTAACT
CAGCGGAATTGTATCCGT
>9.1
GGCGGCCGAGGTACCACATGCACTGATAGCTCTCTTTGTATGAACAGAGC
TGTGGCAGGCCCTATGCCAGGGAGAAAGTAAGATTGGAAGAGCTTACC
AAGGAGGTGGCATTGCACTGTGCTTAAGGGGCAAGAAAAACGTCTTCCA
ATCAGGAGCCACAAATGCTTGGCTGAAGTGCTACTGCTCTTTCATCCTGG
AGCTGGAACAGACGTCACCACTC
>10.1
TGGCGGCCGAACATCCATGTTTTAACTAGCACAGACAAAACCTATGTGTT
ACTCAAAAATAAAATTTAGAAAAACAATTTTCTTATAAAATTTTCTGTT
TGTATTTGGACTACATAAACTGGCTTTAAAAATTGAGAAATATGCCCTAAA
ACCATAAGGAAAAAGCCAACAGAAAGAACAAAAAGATCACAGCAATTAGG
CCGTTCTATTCAATTTTCCATGAGCTAAAAATCACATTCTTCACAAAGT
AAATTACGCCCTGTTTTTATTCTTAAGCACTAGGGTTAGGATTGTGATC
TGAGCTTTACTAAATCGGAAAAGAAAATCTCAATTATAGAACATTTAGTT
TATTTATACCTTAATGCCCGGAGAGGTAATATTTTACTTTAAATGCATA
ACCCATGTGACATGCTAGGTCTTCCAAAAC
>11.1
GCTGGCCTGGTTCTCCAGGGAGCTGAGATCACTGAAGCTGTGGTCTGCTGC
CGTGATGTGGAGGAGGCAGAGCTCAGATAGAAAAGGAGGGAGTGACACTC
AAGCTGCAAGCAGTGACAGTGCCAGGGCTCTGATGTGTCTCTCACAG
>12.1
TTTCTCTTTTGCATCATCAGTCTCTTTCTCATCACTGAAACCTACAAATA
TTTTAAATCTTTCCATTAAAAAAATTTTGCTGATCATTTCAACCTCTTCA
AATTATTAAGAGATACTTACTTTGTATGAAAAATTTTGTGAGATGTATA
ATCCATTTTTTTCTGGGAAGAGAGTCAGTT
>13.1
ATTGCGTCCGAGGTACCAGGTGTCATTCCTGCAGCAGGATTTAACAGATG
CAGATCTGGCCCCAGTGTGAGCATCTGTGTTAATGGTATCAGACTTAAAG
AAGGAAAGACCTGATTTGACTGCTGTTGGTTTGGTAGTGTTCCCTGATCC
GGAGCCAGTTTTGTGGGAGGGAGTCCCAAAGCAGGTTTGAGCTGTGGTAA
TGACCGAGTTGATCCTAGAAGACAAAACAGTAGAATCGT
>14.1
CGCGGTGGCGGCCGAGGTACGGTATTCTTTAAACAAGAGCAAGCCCATG
ATGATGCCATTTGGTCAGTTGCTTGGGGGACAAACAAGAAGGAAAACCTCT
GAGACAGTGGTCACAGGCTCCCTAGATGACCTGGTGAAGGTCTGGAAATG
GCGTGATGAGAGGCTGGACCTGCAGTGGAGTCTGGAGGGACATCAGCTGG
GAGTGGTGTCTGTGGACATCAGCCACACCCTGCCATTGCTGCATCCAGC
TCTCTTGATGCTCATATTCGTCTTTGGGACTTGAAAATGGCAAACAGAT
AAAGTCCATAGATGCAGGACCTGTGGATGCCTGGACTTTGGCCTTTTCTC
CTGATTCCCAGTATCTGGCCACAGGAACCTCATGTCCGGAAAGTGAACATT
TTTGGGGTGGAAAGTGGGAAAAAGGAATATTCTTTGGGCACGGGAGGAAA
ATTCATTCTTAGTATTGCATATAGTCCTGATGGGAAATACCT
>15.1
GGTACTGCTCCCTGCACGATCCAGTCAGCCCCTGCCCGGCTGGTTATGTA

Table 3

ACAAACAAGTCTGTGTCTGTGTGGAGTGTTCAGGACGAGTGGAAATGAC
TGTTTCCAAGTTCATGGCAATTCAGAAGGCCCTTCAGCCAGACTGGTTCC
AGTGCCTCTCCGATGGAGAAGTATCTTGTAAAGGAAGCAACTCCATAAAA
AGGGTCAGAAAGTCTGTTGACCGATCACTTCTTTCTTGGATAACTGTCT
GCGGCTGCAGGAAGAGTCAGAGGTTCTTCAGAAGAGTGTGATCATTGGAG
TGATTGAAGGTGGAGATGTGATGGAAGAGAGGCTGAGGTCAGCACGAGAG
ACAGCCAAGCGGCCTGTGGGTGGCTTCCTTCTGGATGGTTTTCAAGGAAA
TCCAACAACCCTGGAGGCTAGACTACGCTTGCTGTCATCAGTCACTGCAG
AGCTGCCGGAGGACAAGCCA
>16.1
CGGTGGCGGCCCGCCCGGGCAGGACGCGGGAAGAGGTAATTTAATGCCAT
TTTCATGGGACACTTGGGAGCTAGATTAGAAGAAGCCAAGACTAGAATCG
GGGAGATGAGTTGCAGAGGGAAGTGGTGAAGGTCTGAAGGAAGGTAGGAA
AAGGTCGGACACATTCCAGACATATTTAGGGGTGGAGGTGGTTGGATATG
GGGAGTTTAAAGGGGAAGGAATGTGGGGTGATCTGGGTGGTGAG
>17.1
TGGCCGGCCGCCCCGGGCAGGTGACTTTAGTCCTCACTCTGTGGGCAGGGG
CATTACAGCATAGGGGTCCCTTTTGTGAGGGATTTATGATGGCATCACAC
GCAGGATTCA
>18.1
CGCGGTGGCGGCCGAGGTACGATTCTACTGTTTTGTCTTCTAGGATCAAC
TCGGTCATTACCACAGCTCAAACCTGCTTTGGGACTCCCTCCACAAAAC
TGGCTCCGGATCAGGGAACACTACCAAACCAACAGCAGTCAAATCAGGTG
TTTCTTCTTTAAGTCTGATACCATTAAACAGATGCTCACACTGGGGCC
AGATCTGCATCTGTAAATCCTGCTGCAGGAATGACACCTGGT
>19.1
CCCCGGGAGAGGAATTGGGAAGAGCAAATTGCTGCTGAAAATTTCTACA
TTGATCCAGACAAACAAGTTAGAGCAGGCTGAAAAAGAACCCTTGGTGTT
TTTACTGTGTTCAACCAGATCAACTGGAAAAGTATAGATACCTTAATTAG
CACTGTGCTCTGTGGGATTCTGGTCAGCCTGGCCCAAGTGGTTTTTTCCC
CTGAACACGCCTGAAAGGGGAGCTCATAATGACTGCTGTGCAGGTGGGCG
GGGAGGGGGCTTCTATTTGATTTAGTGGCTGATCAATGCCAGTTACCAA
TTATTGGTAGCCCCATTTATACATGGTGAAAAAAAGT
>20.1
GCCGAGGCACCACAATTTTTTAAGTTCTAAGGTAGCTTTCTCAAAGAAA
ACCATTTCAAGGTGTCCATTAAAAGAGCATCTGCGAATTGTTTTGCAGG
GACTCCTAATCAGTCAGGAGAAGTAGAATGTAAGCAAAGTCACAAACCTC
CCGTAAGAATTTGGTTCAACAGGACACAGCTCCTCTTATGAAGGGATG
AGAAGCAGACCCCAAACCCAGTGCCACAGTCTCCCTGGAAACAGCAGCAG
GCTTGGGGAATGCTTCCAAAAGGCTATGCCATTCAAGGTCTCAGGTTTTT
TGGTT
>21.1
TGGCGGCCGAGGTACGATTCTACTGTTTTGTCTTCTAGGATCAACTCGGT
CATTACCACAGCTCAAACCTGCTTTGGGACTCCCTCCACAAAACCTGGCT
CCGGATCAGGGAACACTACCAAACCAACAGCAGTCAAATCAGGTCTTTCC
TTCTTTAAGTCTGATACCATTAAACAGATGCTCACACTGGGGCCAGATC
TGCATCTGTTAAATCCTGCTGCAGGAATGACGCCTGGT
>22.1
CGCGGTGGCGGCCGAGGTACAGAGTAGAGAGAGTTCTGCAGGGATGAAGT
GGGAGACGTTGATAGGACCAGACCAGACCGCCTTGTAGGCCATGGAAG
GACTTTGGATTTTACACCAAGTGCAACAGGTAAGTCTGGAGGGAATTCA
GCAAGAGAGTGACAGGAGCTGATTGACAATTTGAACGCCCACTCTGGCTG
CCATGTGGCAAATAGATTGTAGGAAGAAAAGAAGAAAAGGAAGAGAGCAG
TTTGAAGCTACTACTGTTGTCCAGAAATATGTAATGGTGGCTTGGCCA
GGGTG
>23.1

Table 3

GCGGTGGCGGCCGAGGTACACAGTAGAGAGAGTTCTGCAGGGATGAAGTG
GGAGACGTTGATAGGACCAGACCAGACCAGGCCTTGTAGGCCATGGAAGG
ACTTTGGATTTTACACCAAGTGAACAGGTAAGTCTGGAGGGAATTCAG
CAAGAGAGTGACAGGAGCTGATTGACAATTTGAACGCCCACTCTGGCTGC
CATGTGGCAAATAGATTGTAGGAAGAAAAGAAGAAAAGGAAGAGAGCAGT
TTGGAAGCTACTACTGTTGTCCAGAAATATGTAATGGTGGCTTGGCCCA
GGT
>24.1
CGCGGGGCGGCCGAGGTACAAAAAAGCACAGCCTGGCTCTGGGTTAGAG
ACATGCTGACTGATGAGATCACCAAGGCAGCTGCAAAGGAGAGTCCGGTA
GTGAAAGGCAATGCGCTGTAGCTCTAAGCAGCCTTGTCTGTCGTATC
TAGACATGAAGCCAGCCTCTCCTCAGACTCTGACGGGCTCCTGGAGGTT
AACCTAATTTCTTTCAATGAAAGAGTGGGTTTCCATGGT
>25.1
GGCGGCCGCGGCCGAGGTACGCGGGAGGCACATTCTTTCTACGTGAAG
AGTTTTGTAACTGAACCTTTGTTTCAGTTCCGGCTCCAGCCATCCTGGG
GTAGCTTGCCAATAGATGAATCCCACTCGTTTGACCCATGACGCTCCTTC
TTTTCAATTTCTCCCTCTTTCCCAACAGCAGTGCATGTCCACCATAACCAC
TGAGAGTCTGTGGAATCTAATTTTCTGTTATACTTCTTTCTTACACTCA
TTTTCTGTCTTTATTATGATAGTCTAACTTTTC
>26.1
GGCGGCCGAGGTACGGATACAATTCCGCTGAGTTAGATTCCAAATTCTAA
CCTCTCCATCACACGCCCCAGAAAGGACAGTAGCCAGCTTCTCTGGATGC
TTTGCCAAGCAATTGACTCCATCACGGTGACCATCCAGCGAAGCAAGGAA
TGGTTTTGCAAATACTCGTTCCAGTTTGGTAGCATTTAAAGCTCTTATAT
ATTCTCGTGGGACCTCAAAGGATGTAAAGCAGGATCATAGTTTCTTGA
ACTCTCTGTAAGTCCAACCTTGGTTTCGCGGACATAATTGTCCGGATTCCG
GCTCAGCATCTTCACCTTCATCTCGGTTGCTCTTC
>27.1
CGGCGGCCGCGGCCGAGGTACGGATACAATTCCGCTGAGTTAGATTCCAAATT
CTAACCTCTCCATCACACGCCCCAGAAAGGACAGTAGCCAGCTTGTCTGG
ATGCTTTGCCAAGCAATTGACTCCATCACGGTGACCATCCAGCGAAGCAA
GGAATGGTTTTGCAAATACTCGTTCCAGTTTGGTAGCATTTAAAGCTCTT
ATATATTCTCGTGGGACCTCAAAGGATGTAAAGCAGGATCATAGTTTCT
TGGAATCTCTGTAAGTCCAACCTTGGTTTCGCGGACATAATTGTCCGGAT
TCCGGCTCAGCATCTTCACCTTTATCTCGGTTGCTCTTC
>28.1
GCGGCCGAGGTACTCAGTTTCCTTATCTATAACATGGGGATAATATTAGT
AGCTACATCGTTGTTATGAGGATCAATATCTGTAAAGCTCTTAGAACATG
CA
>28.2
CTCAGAAATTAAGGCAAAAAGTCTTACTGACCATGTAAAGGAAATCCAAC
AATTATAACAGTCTCTGCCTTTAAGGAGCTTATAGTCTAGTTAAGAAAC
CAGA
>29.1
CGCGGTGGCGGCCGAGGTACTCAGTTTCCTTATCTATAACATGGGGATAA
TATTAGTAGCTACATCGTTGTTATGAGGATCAATATCTGTAAAGCTCTTA
GAACATGCATTTTCTTCTACT
>29.2
CTCAGAAATTAAGGCAAAAAGTCTTACTGACCATGTAAAGGAAATCCAAC
AATTATAACAGTCTCTGCCTTTAAGGAGCT
>30.1
GCGGCCGAGGTACTCAGTTTCCTTATCTATAACATGGGGATAATATTAGT
AGCTACATCGTTGTTATGAGGATCAATATCTGTAAAGCTCTTAGAACATG
CA
>30.2

Table 3

CTCAGAAATTAAGGCAAAAAGTCTTACTGACCATGTAAAGGAAATCCAAC
AATTATAAACAGTCTCTGCCTTTAAGGAGCTTAT
>31.1
CGCGGTGGCGGCCGAGGTACTCAGTTTCCTTATCTATAACATGGGGATAA
TATTAGTAGCTACATCGTTGTTATGAGGATCAATATCTGTAAAGCTCTTA
GAACATGCATTTTTCTTCTACT
>31.2
CTCAGAAATTAAGGCAAAAAGTCTTACTGACCATGTAAAGGAAATCCAAC
AATTATAAACAGTCTCTGCCTTTAAGGAGCTTATAGTCTAGTTAAGA
>32.1
GGCGGCCGAGGTACGTATGCACTTGCTTGCCATCTAAGCAGGGACAATGG
CAGTTCATATCATGATGTTACTTTGATTCTCTGACCAAACCTGGCCTGTGA
GCACCCTGGGCCTTTCTTCTCTGTCAAAGGCCTTAAGACAGGTTTACCC
TGTAGCCAGGTCTGGAAGACAGAGCTGGGTAAAGCTGGGTGGGAGAAGT
GAAAAAGGTCAGGTTTACATTCTACGCGGAAAAGGATGTAACACGGGGC
CACATCCTATGCCCAATCCCAAGGCAGGGAGGCAGGGAAGTGGCTGCCAA
ACCTGTTGTAGGAGAGTAATAAATGACTTGAGAGTAAGCCTAAGCAAAC
CAAGTGGGAAGGGGAGTGGGCTGTAAAATAGTTTAAAGAGACTCTCTCAGG
AAGTCAGCGTAATTGATGTGTAGAAAGGTAACAGTCAACAGTTCTCCTAA
CAAGACAGCTTCAAAGCAGCAGCTATAGTGGAGCATTCTGAGGCCTGCT
GCAGATCAAAGCATGAATGTGCAGACTGGTCTCTTGCCAGCGTTTCTT
TCAAATCTTGCACATGTTATATTTAGAGGCAAGTTCAGTTCTAGAGGA
GCT
>33.1
CGCGGTGGCGGCCGAGGTACGTATGCACTTGCTTGCCATCTAAGCAGGGA
CAATGGCAGTTCATATCATGATGTTACTTTGATTCTCTGACCAAACCTGGC
CTGTGAGCACCTGGGCCTTTCTTCTCTGTCAAAGGCCTTAAGACAGGT
TTACCCTGTAGCCAGGCTCTGGAAGACAGAGCTGGGTAAAGCTGGGTGG
GAGAAGTGAAAAAGGTCAGGTTTACATTCTACGCGGAAAAGGATGTAAC
ACGGGGCCACATCCTATGCCCAATCCCAAGGCAGGGAGGCAGGGAAGTGG
CTGCCAAACCTGTTGTAGGAGAGTAATAAATGACTTGAGAGTAAGCCTAA
GCAAACCTCAAGTGGGAAGGGGAGTGGGCTGTAAAATAGTTTAAAGAGAC
>34.1
TTAAAGTCTTCTAGCCTGTATCCCCACTCCTTTTTGCCACTTGCAAATTC
GGTAGCCAGTTACCCAGAGGGAGGCATAGGAGGGAAAAACGAAGACTGAA
AAGGGCTAATATGAGTTTTGTCTCTTACAATTTATCTGCATCTTATCCTT
CCCCCACCCTCATCATTAAATCATTAAACATTCTATCCAAATAGGATGC
CCTTCTGTGGAACCTGCATATTTGGAAACCATACTGCCTGTTAACTTATG
CACTCCACTGGGAACCTACAGTATCTGTTCCCAACAATACTTGCAATCAT
ATCAGTTACAACCGCTGGGTGTGATTGGTTCAAAGGACCTACCTACAA
GGTTATATCAATCCATTGTCCAATTTGAGAGATTTTTCTGAATCCAGTT
AAAATAATTTTTGGCTACACCTGGGGACACTTCCAGGACAACAATGACT
TGTAAGTCTAGTGCCCAAGAAAGCCAAAAAGGCCCGGCAACCTTGGTTGCC
ACCAGATCCCCAACAGACAGATTCTAAGGGAGAAGAGAGTTTATCAACTA
ACATCACA
>35.1
CGCGGTGGCGGCCGAGGTACGGATCAATTCCGCTGAGTTAGATTCCAAATT
CTAACCTCTCCATCACACGCCCCAGAAAGGACAGTAGCCAGCTTCTCTGG
ATGCTTTGCCAAGCAATTGACTCCATCACGGTGACCATCCAGCGAAGCAA
GGAATGGTTTTGCAAATACTCGTTCCAGTTTGGTAGCATTTAAAGCTCTT
ATATATTCTCGTGGGACCTCAAAGGATGTAAAGCAGGATCATAGTTTCT
TGGAACCTCTGTAAAGTCCAACTTGGTTTCGCGGACATAATTGTCCGGAT
TCCGGCTCAGCATCTTACCTTCATCTCGGTTGCTCTTC
>36.1
GGTACATTTGTGTTTTATTGTGAAGGGTCTCAACTGTGTGGCTGATTCA
GGCTGTCCCCACTGCAATGTATGGAGAGGAGAGAAAGGGATGAAAGTGAA

Table 3

GGCAGGGGGGGGGATGTTTGTTCACGGGGTGAACCTTCTGCCTGAGCAAG
TTGATGTTGGCTTCCGAGGTATTTGGACACTTTCTTTCAATACATTTTA
TTAGCACTTATTCTGTGTCTGCTGCCCTGGGA
>37.1
GTGGCGGCCGCCCGGGCAGGTACGCGGGGGCAACATGGCGGCCTTAGCAA
GCTATAGCTGCGAGATTTGAATTACTCCACTCGTAGCTATTGCATTCTG
ACGATGGCCTCTGTGGCTTCGTGCGATTGCGTCCGAGCTCAGACGAGCT
CCCTGGAGACCCCTCTTACAAGAAGAAGATGAGGACTATGATTTTGAAG
ATCGGGTCAGCGACTCGGGTTCATATTCCTCAGCGAGTAGCGATTATGAT
GATCTTGAGCCTGAATGGCTGGACAGTGTGCAGAAAAATGGAGAGCTGT
TTATTTGGAATTGAGTGAGGATGAAGAAGAAAGCCTCCTTCCTGAGACAC
CACTGTGAACCATGTCAGGTTCAGTGAAAATGAGATTATCATTGAAGAT
GACT
>38.1
CCGAGGTACTTAAGTTTTTCTTCAGTTACAGCTACCATGTGAAAATAATT
CTCTGCTTATCAAGTTTACAACCTTTAGAATTTCTGTTTTAAAGTTTTCT
CATTTACTTATCACACAGTCATCTTCTTTTGGCAAACGCTATAGTAGCA
CATTAAAAGGAGACTGATGTGAAATCAACTCTGTGCAAAAAGTATTGGGT
GCTTTGGTAGAAGTCTATACAGAAGACACTGGAGACACAAAAATGAATTT
TGTCCAGGTGAGTTGA
>39.1
GGTGGCGGCCGCCCGGGCTGGTACGCGGGAAAGCAAAACGACAAGCACGC
CCTGAGCAGAGCCCCGGAATTCAACCTTTAAGTGGATAACTTGGCTTCT
GGTTTGCCAAGGAACCAGGGCATCAAACAGATGAAACAGCCTATTGTCCA
TTTCAACAGGATTTTTCAGGAGTGGGGATGATCTTTCAAATTATCCACAA
CTTAATTATTTAATATTTTGATAGTCAATTACCTAAGACACGGCATCGTC
ACTGACCAATCAGAAGAGATGCCAGTAGTTGGGC
>40.1
CTCCCCGCGGTGGCGGCCGAGGTACAGTTTAAAACTGTGGGGCTGAGT
CCTCGGGGCCGTGGGGCGCAGCGTGGCTGATCACCATCATAACGGGCCTA
TGGGGATACATTCTTTAGACATTTTGAAGTAATTAATGCTCTCGTTAGT
GATTAAGTCTGTGAAGTAGTCCTTTGCATAATCAAATCCATGCTTTTCTT
TGATGCCATTGCGACAAACAGTGAATTATAGAAGCGAGAATTCCTTGATT
AATCCAAGCCATTCTCGCCACCCAGGGGGGATGTAGCTGCCATTATATTC
ATTGAGGTATTTTCCAAAAAAGGCTGTTCTGTAGCCAGTGTTGTTAAGAT
ATACAGCAAAAGTCCGAGGCTCATGCATGGCCTGCCACGAGGGGGAAGAG
CAGTTCTCGTTGTTGGTGTAGACATTGTGATTGTGCACATACTTCCCGGT
GAGCATGGAGGACCGTGACGGGCAGCACATGGGTTGTAGTCACAAAGGCA
TTGATGAAAGTGGCCCCCCCATGTTCCATAAT
>41.1
GGGGGAAAAAATCTCACTCAAGACTACACCCAGAAAAGCTATCTTTCAGA
AATGGAGATAAAAACATCTTTCCAGACAAAAGAAAACTAAGAGAATTTA
CTACCACTCACCAGCCTTACCAAAAAATGCCAAGGGAGTCCTACATCTA
AAGCAAAACGACAATCATCACGAAAACATGCAAAAGCATAAACTAACTT
GT
>42.1
TGGAGCTCCACCGCGGTGGCTGGTCCGGAAGAGCAACCGAGATGAAGGTGA
AGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGAC
TTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCCTTTTGAAGT
CCCACGAGAATATATAAGAGCTTTAAATGCTACCAAATGGAACGAGTAT
TTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAAT
TGCTTGGCAAAAGCATCCAGAGAAGCTGGCTACTGTCCTTCTGGGGCGTG
TGATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAATTGTATCCGT
>43.1
ATTGGAGCTCCCCGCGGTGGCGGCCCGGAGAGCAACCGAGATGAAGGTGA
AGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGAC

Table 3

TTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCCTTTTGAGGT
CCCACGAGAATATATAAGAGCTTTAAATGCTACCAAAGTGAACGAGTAT
TTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAAT
TGCTTGGAAGCATCCAGAGAAGCTGGCTACTGTCCTTTCTGGGGCGTG
TGATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAATTGTATCCGT
>44.1
AGGTTTTTACCTGATGATTGTGTAGGTTTCTCCTAGCTCCAAAGTATCCG
GCTCCTACGACTCTAAATATAACCTTCAAGGAAAGTGGAGCTGGTTTACT
CTTTTCTGA
>46.1
TGTCAGTGCTATTTATAGTAATACAAAAATTTAATGTAATTTTTGTCAA
ATCTCAATGGTATATTTTTGCAGATTTTCAAATTATATATATGATT
ATAAATTATTGTTATAGATTCTCGGAAAGTTAATCCATCTCACCATTA
>47.1
CTAACCTCACATTTAATTGCGTTTGGCTCACTGCCCCGCTTTTCCAGTC
GGGAAACCTTGTTGCGTGCCAGC
>47.2
GCCGCCGGGGGAGGAGGGCCGGGTTTTTGGCGGTATTGGGGGCGCCTTC
TTCCCGCTTTCCTTCGCCTCACTTGAACCTCGCCT
>48.1
GTGGCGGCCGCCGGCCAGGTACAAGGACATGCTGGATGCCAAGCAGTTC
CCCCCTACCGTCTCACTGCCCTCAAGACTTCAAGGCCACTCTCCCCATA
AACATCAGACTACAGATTTAGGTGGAAGAGCAGCCATGTTTGAAGGGCAC
ATGTGATGAGTGGGGGGCAGCAAGATGCCATTTCTGCATCTCCAGAAGG
GATGAGTCTTTGCCCCGATGCAAGCCCCCTATTGTTGGGCTCCAGCAG
TGCTTACCTTCTACAGCGTTCACTCATTTTGTCTTTCCCCCAACTTTT
TTTTTT
>49.1
GCGGCCGAGGTACAACCTAATGGAGCTCAGAAGCTGTCAAGGATATAAGCA
GTGCAACCCAAGACCTAAGAATCTTGATGTTGGAATAAAGATGGAGGAA
GCTATGACCTACACAGAGGACAGTTATGGGATGGATGGGAAGGTTAATCA
GCCCGTCTCACTGCAGACATCAACTGGCAAGGCCTAGAGGAGCTACACA
GTGTGAATGAAAACATCTATGAGTACCTGCCCGGGC
>50.1
GCGGCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCC
GGACAATTATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAA
ACTATGATCCTGCTTTACATCCTTTTGGGTCCCACGAGAATATATAAGA
GCTTTAAATGCTACCAAAGTGAACGAGTATTTGCAAAACCATTCCTTGC
TTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCATCCAG
AGAAGCTGGCTACTGTCCTTTCTGGGGCGTGATGGAGAGGTTAGAATT
TGGAATCTAACTCAGCGGAATTGTATCCGT
>51.1
GCGGCCGAGGTACCTCAGCATATATTGGAAGTGTTTTAGAGTTGGTGAGT
TCCCCGTGCCTTCCAGAACTGAACGCTAGGAGGAGCAGCCAGTGAGGACA
GACGTCTATGCAGAAACATGGGGAACCTCTGGAAATGACACACTCTCCGG
GCACAGGGGGCCATTTCGTCCATCTTGAGGTGGACTAATCATGGAGATTCT
CGCAGGGCCGGCTGCTATCTCAGATTTTCTAATCGGAGAAGGAGAGAGAT
CAACTCCATCGACTCCAGTCTGTGCGGGGCTGATGAGTGAGGTGGCAGC
AGGCATCCGCGTGGATTTGTTGAACTGGACTTTTTATTGTGCTGAAAGC
TGCTTGTGTGATGATCTCATACTTTGTAGTTGTTCTATCTGCAGCACTG
ACTTCTAAGGGATTCTTCCAACCTAGAAA
>52.1
CGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTGGCATTCTG
AAAATTCATGAGGCTGTGTTTTAGGTGAGGCTATTTCTTCATTCACTGAA
CGGGGCACCAACAGGCTCTTAATATGAAGACTTGGGCCCTTCTGAGTT
CTAGAAAAGCATTTTTACTAGTTCTTCAGTAATTTCCCCTCCCCTTCATT

Table 3

CTCTGTTCTCTTTTCCTCGGACTCCAATTGGATCTTGGGCCTCTAAGTAT
AGGCAAGATCATGTTTCTAAAAAGGTTCTTAGAGGGAGGGAGTTCCTGGG
AGTGTTATGTGGGGTGGTGCAGAAGGTGCTAACAGGTGGGTTTCTCTTTA
GGATGAGCAGGTGGGATGCCAACTGTCAGGCTGGGACCTTTCCTCCAGT
GCTAAAATGAAAGTTTTATTCTGGTCCTTGACATCCACACCAGAAGTCT
TGACTTTC

>53.1

GAGCGACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATTAT
GTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAGGAAACTATGATCC
TGCTTTACATCCTTTTGAGGTCCCACGAGAATATATAAGAGCTTTAAATG
CTACCAAACCTGGAACGAGTATTTGCAAAACCATTCCTTGCTTCGCTGGAT
GGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCATCCAGAGAAGCTGGC
TACTGTCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTTGGAATCTAA
CTCAGCGGAAATGTATCCGT

>54.1

GCGCCCGAGGTACACTGGGAAATGAAGAACTTAACATACATAAAAAATAGA
GGGACAGTCAAAACTTCACAGGGGGGAAATCAAGTTAAATTCAGAGCTGG
ATTTAGATGATGCCATTCTAGAGAAGTTTGCTTTCTCCAATGCTCTATGC
CTTTCTGTAAAACTGGCAATTTGGGAAGCATCACTGGATAAATTTATTGA
ATCTATTCACTCAATTCCTGAGGCTTTAAAGCTGGGAAGAAAGTGAAAC
TATCTCATGAAGAAAGTTATGCAGAAAATCGGTGAACCTTTTGCTCTAAGG
CACCGTATAAACTTGAGTTCAGACTTCCTGATTACTCCTGATTTCTACTG
GGACAGAGAAAACCTGGAAGGACTTTACGATAAAACGTGTCAATTCCTTA
GCATTGGCCGAAGAGTTAAGGTCATGAATGAAAACTTAAGCACTGCATG
GAACTAACAGATCTAATGCGGAATCACCTGAATGAGAAGAGGGCA

>56.1

C GGCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCG
GACAATTATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAA
CTATGATCCTGCTTTACATCCTTTTGAGGTCCCACGAGAATATATAAGAG
CTTTAAATGCTACCAAACCTGGAACGAGTATTTGCAAAACCATTCCTTGCT
TCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCATCCAGA
GAAGCTGGCTACTGTCCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTT
GGAATCTAACTCAGCGGAATTGTATCCGT

>58.1

CTCCACCGGGAGGCGGCGCCCGGGCAGGTACGCGGGCTATTGTGATTCC
CAGTGACCCATAGAACAGGATTTCACTAGTCCTATGACATGTGACTGGGC
TTGGGAAGTTGCGGTGTCAGGTCCAAAAATCCTAAGGTGGGATCTTCGCT
TTGTGAAGCAAATTAATTACACAACCAATATTGCCACATTCTTGAGGTC
TATTGACACAATGGGAACCTCAACCCCTACTTAGCTTAGCATTTTTTTTT
TCAAAGAGTGAAAAGTGGTCCACGTAGAGCACAATATAATTTAAGTAAAG
GAAGATTAACATATTTTTATCCATTTCTTATGGTGGGAAATTAACATG
TTTTAGATTTGAGGTCCCCCTCTCAGGAAACCTTTCAACTTCGTATTAT
TCACTCCTGAGTAGTATGGGGTAGAAAATGAGTGGAAATCAGTTTGGCCA
CTATTTCCGAGTCTTTTGCACTGCAATACTTTTCATCAATATTTACAATAT
TTCAGTCCTGTTTACAGATGGGGATCACATCAGGCTC

>59.1

GGCGGCGGAGGGACGCGGGAAAGATCAGTTGTTTTACCTTGGCATTCAA
GACTTTTCTTTGACTCCCATGGTTCTCAAAGCGTGATCCTGGTCCACCAC
CATCAGCATGGGGGGGAACGTGTTAGCACTGCAAATTCATTCCCTCCCT
AATTTTCTGAATCAGAAATTACGGAGGT

>59.2

TAATTTATGCTTTGAGAACCGCTGATCTAGTTTGTCCCTCTCATTTTGCA
GGCAAAGAATTGAATTCAGAGAGGTTAATTGA

>59.3

CCCAGGATTCATAGTTTTCTTTCTAATACTCCATATTTGACTTGACTTTT
TTACAAGTTGTAATTACAAATAAGTCTAAGATGGGAAAGTTGTGGAAAAC

Table 3

TTTATAGAGAACATGAGATTTGACTGAACAGTAAACATTAAGTAGAGAGG
AAAGAAAGGGGTGTTCTAAGC
>60.1
GCCGGATCCGGACAATATGTCCGCGAAACCAAGTTGGACTTACAGAGAGT
TCCAAGAACTATGGGGGTGCTTTACATCCTTTTGAGGTCCCACGAGAAT
ATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATTTGCAAAACCA
TTCCTTGCTTCGTTGGTACCGTGATGGAGTCAATTGCTTGGCAAA
GCATCCAGAGAAGCTGGCTACTGTCCTTTCTGGGGCGTGATGGAGAGG
TTAGAATTTGGAATCTAACTCAGCGGAATTGTATCCGT
>61.1
CGCGGTGGCGGCCGAGGTACACGTTACTGTTCCGTCTGATTTTGTAGTCT
CTGTTCTGCCCTTTGGAACATCTCTTCGGTGTTCTGTGGGATCTCTCTA
CTGCATTCTACTTTATGTAATAATCTGTTCAATAAATAATTTTAAAGG
AGACAACAACGCCGCGAGGTGATCTGGAGGCTCCTGGAGGACCTCAGCGAC
TCAGGTCCAGTCCAAGGAGGGCCGCGAGATCAGGCTGAAGGATGGATCCAC
ATGTTTAGAGGAGATCGAGAAATGCAGAAGAGAGATGCAGCAGAGAAATG
CCACAGAAAGGGGAGCTGGAGAGAATCAAAGCATGAGAGGAATTCAACCT
GCTGTCACTGGAAGGGGTCCAGATGGAACGCTTGAGAAGAAACGTGTGTA
GCATCTAGGAGTAAAGACTCGCCCTGGCTGACAGCTAGTAAGGAAATGGG
AACCTCAGTGCTGCAGCCTCAAAGAATTGACTTTAACCCACAGCCTGTGT
GCATTAGAAGCGGATGCATTAC
>62.1
GGCGGCCGCCCGGCAGGACAATGATGGCTGTCAACTTCGTTTGTAAAA
AAAGACAATTTGAGCAGGACGACCCTCTCCAATCTGGGTAGCATGGTTAG
CCTGTGCAGTAACAACGTAGGCTCGGAGGATGGGT
>63.1
TGAGTGAGCCTAACTCACATTTAATTTGCGTTTGGCGCCTCACTGCCCCG
TTTTCCAGTTC
>63.2
AGGAGGGCGGGTTTTGCCGTATTTGGGGCGGCTCTTTCCCGCCTTCCTTC
GGCCTTCAACTTGACTTCGGCTTGC
>65.1
TTTTTTTTTTTTTTTTTGGAGGAGATGGACAGTGTCAGTCTCCTGATAA
GGGGGTGATGGGTAGGTAATTTAAAGCTTCTATTATAAAATCTAGTCTC
TCTGACACTGCCCTGTCCACTGCAGTCACATCTCCAATACTGAAGGATC
CTGAGAATACGAGCGGGCATGACACTTACTCACGTCAATCACCAT
>66.1
GCGGTGGCGGCTGCCCGGGCAGGACCGCGGAAATCCCCTAACTTCCTTGC
TATCTTCCCATCCCATATTTAGGTTAGATAGAGAAGTGTGTATGTGTGTG
TGTGTGTGTGTTGCTCGCACAGTGATGAACTGTAAACATAAATGAAGATA
TGGAAAAATACATCAATTAGGACAACATGACAATTTCACTAGACTCCTAT
CAAAGAGTATCAGTTCACAGTTTTTATAGATACTAGTATAAAATTCAGAT
CTTGACTGTTTTCTGGGGATAAAGCAAGGCTTTACAATTTAGCAGTCTGT
AGCTAGCTTGAACAGTAAACAACAACAGCAGAGCCTTAAGTGTATTT
TGTGACCTAAACATGAACTCAGGGTTTTCAAATTCCTAACAATGAATAG
T
>67.1
GATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGAAGGATAAGAAAT
ACTGTGTCAAATTACCCACAAGTTAAATGCCCATGTTCCAGACCTGTGGC
TCTTAGTATCAGGCTTGTGATAGAGAAAAGGCTGCTATGAATTCTACTCA
GTGTGCTTAGACCAAAGGAAACCACAGGGATTTACAGGC
>68.1
TCCCCGCGGTGGCGGCTCGGGTACTTGACAGGATAAGAAATTAAGTGTGTC
AAATTACCCACAAGTTCTATGCCCATGTTCCAGACCTGTGGCTCTTAGTA
TCAGGCTTGTGATAGAGAAAAGGCTGCTATGAATTCTACTCAGTGTGCTT
AGACCAAAGGAAACCACAGGGATTTACAGGC

Table 3

>69.1
TTGGAGCTCCACGCGGTGGCGGCCGGGTCCCATTTTCATCTTGCACCCGCA
TACCAGGGATTGTTGCGAAGAATCAGTTGTGTTATATTGTCCAAATCATC
AAAGATACCCTGAGGTAAATTACTTAGGTTATTATTGGACATATCCAGTC
GATAGAGCTGCCTTAGATAAGAAAAAGCATTTGGGGGCACCCGATTGATG
TGTTATCTTGAAGATAAAGCTTCCTCAGGTTTGTGCCTGGAAGGTTTAC
TGGTGCAGCAGTCAGGGAATTCCGCACCAGGGACAGCTCTGTCAAATTAA
CTAGGTTGAAGAAAACTTTGTACCTAAACCATGATTGTTCAACAGGTTT
CCATCTAGAACCAGGCGTTTTAGACTAGTGAGACCTTGAAGAGATGGTGA
TGAAATAGTGGATATGCGATTATCATCCAAGCGTAGTTCTTCTATAGTCC
TGGGCAAACCCAGGGAATTGTGCTAAGGTGATTACGGGACAGGAAAAAGC
AGTCGGAGATAGTTGCTGTCTCGGAATGCTCCCTCTTCTATGCTAACTGC
AGAGACAGAGTTGTCATCTAAATGTAATTCTTCCAGATAGGGAATTTTG
AAAGTGAATCATAAGTGATAGTCCTTATGTTATTTTC
>70.1
TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTGAATAAAAGGCTTTGG
TTTCTCTGATGTCTTCCAATCAATCACACAGAGCTTGCCCTGATACTCAG
CCACACAGTCCAGCAGACCTATATAGTTTAAAGGTTTCATGTTGAACAGCA
CTTTCAAGAGCTCGCACTCCACTGACATCTTTCAGAATATGCTGGACACT
TTCAATGTAACCAGACTTGAGGAGATTTTCATCTCTCTTTTAAAGGTTT
CCTGGGGTGAAAAGTATGCTTTTCCAAGGCTTCGTGGAACCGTTTCCCTTGT
AAAAAGACGTTTGAAGTGTATTCTTTAAAGCCATCTTCTCCAGTTCCAG
AATCATCCGCTGTTTCCACCTCTCCAACAAGAAAACCTGTTGTTTTGTCA
TGGTCTGCTGAAGGACTCGGGTCACACTTGGTATCACATTCCTTTGCAAG
GGGATTTTCAAAGGAAGTGAAGGATCACTTGCATTTGGTTTATCAC
>71.1
GATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGAAGGATAAGAAATT
ACTGTGTCAAATTACCCACAAGTTAAATGCCCATGTTCCAGACCTGTGGC
TCTTAGTATCAGGCTTGTGATAGAGAAAAGGCTGCTATGAATTCTACTCA
GTGTGCTTAGACCAAAGGAAACCACCACAGGGATTTACAGGC
>72.1
ACATATATCATTTATTCAAGAGGCAGATTTTAAACGTTTTTGTAAAAAGC
TAAATAACACCAGAGTGACTCAAAAAATTTCTCAACTTTGCC
>73.1
CTGCCTTTAAAGCTCATAACAGTAGAGATCAGTTGTCTCTGGTTGCAA
TCTAACATATATTCATGCAA
>74.1
ACCTTGTGAGAAGAGGAAGAAGGTGATAAGAACTAAGATCAGAGCATAGT
AGAGAAAGTAGCCCTGTAAACAGAGGAGAAGCAGAAAGAGAGAAGGGAGG
ACAGAGCTTTTATTTTGTCTCCAGGTTAAAAAGAAAAAAGCACATTAC
AACTCTATGTCAGTGTCTGTCCAGGTCCTAGAACTGGAATAGACCAACC
AAGCCCAACCCTTCTTAAAGTAAGACTAGGTGCTTCTGATTATATATT
CAACTGCCTGGAAGCATGCAAGTAAATTTCTTGATGGCATTTCTAAAG
TTCAAACATATTCTTCTAAAAATGCATTTACAAAAAATATTAAGATTGT
GTTTTTTGGTTTGGACTTTAAAAAAATTTGTTTTCAAACCATAATTGG
GGCCTACCCCAAAATGGAT
>75.1
TGGCGGCCGAGGTGCGCGGGGAGGCGTTGTGGGAGGAGGTGCGGGGAGAG
AGGAAGGGGCCTGTGCACTGAGCAGGCATCAAACATTAGTGGATGGCCTT
GCGTCTCAATCTGCAGTAAAGAGGAACTAATCTGAAAGGGAACGATAGG
ACTGTGTGTCTTTTTATTTTTAAATACGGAGTGTGCAATTTTACTGAA
TCTTGAATCATGCCCAAAAGAATGAGCTGTCGGTGCTGCAGTCGTGACCC
AGGCTGA
>76.1
GGTCTTGGCTGCCTGTGGGCTTCCCCAGGTGGCCTGGAGGTGGGCAAAGG
GAAGTAACAGACACACGATGTTGTCAAGGATGGTTTTGGGACTAGAGGCT

Table 3

TATTGGGGGGAGAGATCCCTGCAGAACCCACCAACCAGAACGTGGTTTGC
CTGAGGCTGTAAGTGAAGAAAGATTCTGGGGCTGTCTTATGAAAATATA
GACATTCTACATAAGCCCAGTTCATCACCATTTCCTCCTTTACCTTTTA
GTGCAGTTTTCTTTTCACATTAGGCTGGTTGGTTCAAACTTTTGGG
>77.1
CAGGACGCGGGGAGACAGCAGAAGGATCACTGGGCTGGAAGCTCTAACAG
GCATTGCCAGCCTAGCTACCTGCAGTTTGAGGCAAGGGCAGGGTCACTTA
CCCTGCTGTCTGAATGTCTCCTGGGACAACAGGAGGCTGCACTCACTGGC
TGAGTTCAGACAGAAGAGGGATCATCGGACTGGAAGCTCTGGCAGGTATG
GCTAGCCTGGTTACCCGTAGTGAGAATGGAGAGGGCCACCTGCCAGCTA
CACAAATGTTTCCCAGGACAACAGGAGGCTGTGTCCACTGACAGTTCAGA
CCGAAGTGAACCACTGGACCGGAAGCTCTAGCAAGTGTGCCCACCT
>78.1
TCCCTTTAAGTGAGGGGTTAATTGCGCCGCTTGGGCCGTAATCATGGTCA
TTAGCCTGG
>79.1
GGTACTTTGGCCTCTCTGGGATAGAAGTTATTGAGCAGGCACACAACAGA
GGCAGTTCCAGATTTCAACTGGTTCATAGATGGGCGGGAGAATGAAAACA
GATGGTGCAGCCACAGTTCGTTTGATCTCCACCTTGGTCCCTCCGCCGAA
AGTGACCGATGTCTTCCATATTGTTT
>79.2
GTCTGCGATGTCAGTGGCCCTGTTGGATGTATCAGAGATGAGGAGCCTGG
GAACCTGGCCAGGTTTCTGCTGGTACCTGCCCCGGCG
>80.1
TGGCGGCGATTACTGTGCGAGAGGTAAAGGATATATGTGGCTACGATTAC
GGCCTCTCT
>81.1
GGTGGCGGCGGAGGTACAGCCAACCCCTAGGTGTGGACCAGCTGAGGCA
GGTGGGCAGATATGCAGAGGGACTTGGGGCTTTGCCAAAGGGTAAGCACA
AAGAAGGAGTCACGGGTTCTGTTTCGAGGCACTGTTGGGATTAGGAGCCCG
AGGGACCTACTTTGCAGGAACCTAGCATAACTTTGTGTGACGAGACTGCA
CAAGACAAAGCTCAGGCAAGTGGCTCAGTAGTTGGCCAGCCCAGCAGGGT
CCTCTGTATGAGTGTGCACCCAGCTGAAGAGAAGAAATGGAGAGCAGCAA
TTGGAGCTTCAGGACCGGCTTGCAGTGTGGCTCCAGGTTATACCACCACT
GCCCCAAAGCAAAAGCTAGAGAAGCAAGTGGAGAAATGCTGGAGAAAGCTG
CACCTACAGGCAACCAGCACTTTAAAACCACTCCAGGCAAGTAATGG
AAGGAAAAAAG
>82.1
TGGCGGCCGAGGTACGCGGGGGAGTCAGTCTCAGTCAGGACACAGCATGG
G
>83.1
GTGGCGGCCGAGGTTCTTGTTCAGCTCTTTATTTCTTAGTCCCACTCC
CCCGAGGTAACACATTTCTGCTTTTTAGCTGTTTCTCTAGTGTAGGT
CACCTTTCTAATTTTGTATTCAATCACTTAACCACCGTTACATACTACAA
AATATCACTATATTATGACCATGATTATTTCTTTCTTTTCCCTTCA
TCAAGGAAGTTCATCAAAGAATTCATCAAAGTTCATGATGACCTCTT
TAAAATTTCTTAGTATTCTATGTAACATTACCGATCTTTCCCCACA
CA
>85.1
CGCGGTGGCGGCGGGTACTTATATTACATTATGCTAAAATGCAAACATCT
TATGCTAAATGTTATATTTGGGAACAAATTGTGTAATATACTGATGACG
TCAATGGATCATTACAATTAATGTAGGTGCCGTGGGCAGGAAAGCTAACT
TTAGCTGAAAGCATCTGAAACGTGCTTATTTTAAATGGGCCCTCAAAGGA
AAGGGATGAGGCCAGCCATAAAGAAAGGCTTGGCCAAATATAGTTCCTGT
TTGTCAAGAACAACAAATCCCATTTCACAACAGAACTAACCTGGCATGCC
ATTCTATCCTTAGGTTCTGGCGTGCAGTGAGCGAGGCAAGGATGGCATT

Table 3

AAGATTTTCATTCTTTGTTCCAC
>86.1
CGCGGTGGCGGCCGAGGTACATCCCTGTTTATCCCATTCCATCCACCGAG
GCCAACAGCATGGATGATCTGTTTGCAGGGAAGCCTCCCTGCTCCCGTG
ACAGCTATCTCACCAGCTGACACTTTACCATATCTGGCAACAAACTGTTT
GCTCTCTTCTTGATTTCAAATCCACCAGCTTTTACCAGGGCCAGGGCCA
GGCCTCCCCCATGCAGAAGATCTTCATTGGCTGCATTACCACAGCATCA
ACAGCATGTGTGGTGAGGTCATCTTCCACACTGATAACTCTATCCTAGG
AGTCAGCATTTTTCTGAACACTTGCAGAGATTGCTGTTGCCTTCTGAA
CTGGAGAGACCAGGGTAGAGATACAGCCAACTTATTCTGGAGGACTTCA
CACAGCTGACGCTCATTATTGTTTAAAAATTTGAAGTCATTGTGGTTAAT
GGGAAATTTGCCAACTATAGTTTTCTCCAAG
>87.1
CGCGGTGGCGGCCGAGGTACTCTTCAAATTTGTCAAGGTCATGAAAGACA
GCAAAAAGTGAAGAATTCTTACAACTAGAGGAGACAAAGATTGGAG
>87.2
AGTTGGAAGACCGAGCCCTGTACCCAACGTGGAAGAAACCTCCATTCT
CTACTTAAAAATA
>88.1
AAAACCGTAAAAAAGGCCGCGGTTGCTTGGCGTTTTTCCATTAGGGCTC
CGCCCCCTTGACCGAGCCATCACCAAAAAATTCGACGCTCAAGGTCAA
GAAGGGTTGGCGGAAAACCCCGACCAGGGAAC
>88.2
AGAATACCCAAGGGCCGTTTTTCCCCCCTGGGAAAGGCTTCCCTCCGT
GGCGCCTCTTCTTGTGTTTTCCCGAACCC
>89.1
ACCGCTCAGCCTGCTTGGTTGCATCCTCCGCATGGCGAGTCAGCTCTGAG
ATCTGAAGGTCAGCATGCTTACGCTCGGCCTCACATGTGTCAAAGTGATT
CTGGATCTCCTTAAGTCGATCCAACATCTGCAGTTGCTGTTTTTCCCAT
TCTCCAGTTCACGTGTTAAATCTCTACTTGTGATGCCAAATGTGCTTC
TTCTTGCTTTTTCTTCCATGCACCGTTTCACTTCTCTAACTCAAATGC
CATTGCGCTGAAGTTCAGCTGCACTCTCAAACTGACATTTGCT
>90.1
TTGGAGCTCCACGCGGTGGCGGCCGAGGTACGCGGGATCACAAAGCAGAC
AAACAGGAAAGACTGAACCATCTATTTGAAAAAGTGACTTCATTCAATT
GGTTCAGCCACCCGTATCTGTAATCTCTCCATTCTGCCCTCTTGATTTTA
ATGCAGCTATAAAGGAGAGTATTTTAAAGTGCCTCCAGTAGGAAGAAC
AGTCACAAGGCACTGTTATATCAATTCAGTGTGACACAAGCCCTGATTAT
TTAATAGTATAACAGCAGTGAATCAGAGTTCTTTCATCTGACTTTGCTGA
CATTTCCAGCAGCTGTATATTTAATTCACAGTTAGGGGCTGAACAACTA
CAGCCATTGATCAGAATGTAAGCAGGCATCCTTGAGCTTCTTCTAGGAAC
ATATACAGATGTGCACAAAATTTTCATTTATTCA
>91.1
TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATCACAAAGCAGAC
AAACAGGAAAGACTGAACCATCTATTTGAAAAAGTGACTTCATTCAATT
GGTTCAGCCACCCGTATCTGTAATCTCTCCATTCTGCCCTCTTGATTTTA
ATGCAGCTATAAAGGAGAGTATTTTAAAGTGCCTCCAGTAGGAAGAAC
AGTCACAAGGCACTGTTATATCAATTCAGTGTGACACAAGCCCTGATTAT
TTAATAGTATAACAGCAGTGAATCAGAGTTCTTTCATCTGACTTTGCTGA
CATTTCCAGCAGCTGTATATTTAATTCACAGTTAGGGGCTGAACAACTA
CAGCCATTGATCAGAATGTAAGCAGGCATCCTTGAGCTTCTTCTAGGAAC
AAATACAGATGT
>94.1
ACACAGCTCCATGAGGTACCAAGCATCCCATCACCCATACCGGCAGTTG
CATGGCAATGGCTGCCAGGCAATGGCACATCAAAATCCGGGCAGCGTCTT
GAGCACTGTGCAATTGAGTCAACAAGGTCTCACTACTGACTGGCTAAGA

Table 3

TGGGGCCTGCCCTTGGCCAACTTCACCATACAGTTTAGAGCAATCTTTAA
AGTGGCCTGAGCACCTGGACTATCATCTTGAACAAAGT
>95.1
ACCTGTATGATAACATTGCAGTCAAACATATCTTGTGACAGGACAGTTTT
TTGTGGGGAGGAGAATTAGACCAAGTTCGGAGATATATTTTAGGAACTAA
AAGGAACGTAAGATCTGGGGTAGGGGATGAGCAGCTCCACACCCTGCTC
CTGTGTGAGCTGTGCGCTCCCGACTGGGAAATGTCTAACTCCATCGAAAA
CATGAGATGAGGGGCAGGGAAGGGGCTACTTCCAAGCCTTTCATTATAAT
ACTGTGTGTAACCTTTTGCATATTTTCAGAAAAGAAACCAGTAAGGTGGG
TTCAGTTGTGGGCTCATCCTGACTTAGAAAATTTTAAATAATTTAGCCCA
TTGAAATGTTGATAATATAAGGCATGCATGAATAATAATTTTGCTTCTT
>96.1
AAATGTGCGCAAACTGCCGTCTTCCCTCCTCGGCCGCTGCGACAAACACC
CCACAAAATGGCGCAGCGCGCTCGCCCTAGAATCCCCGAGTCGCCTCT
CCCCGCGT
>97.1
TGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTCCCCTGAGGAGCCCCCTT
CAGAGGGGCGAAGAGCAGTATCTTCAGAGGCCATCCAAGTTTATGCATAA
CAAGGAGGGAAAGAGAATGCAGAGAAGAGGCTGGTGATAGACAAGTTTCA
TGTTCACAACTTGAATTGCAGAGGTCAAGAGTTTAAAGAGTTTGGGATGG
AAAGAAATCGAGAATTGGG
>98.1
AGCTCCCCGCGGTGGCGGCCGAGGTACCAGCAGAGATGGCTTCAAGATGA
TTTAGGACTTGGGTGAGTACTTACTGATGTAGTGGTTTGATACACAC
TGATTACCTTCTTCTTTTTATTCTCTGGCATTCTCCTATATAACTAG
CCACTTTTAAACAATATTTGTGGGCTCTTTCTTCTGCTTGTCTGTAAAT
ATTAGGGTTCCTGAGTCCTTACCTAGATTTTCTTCTTCTTACTCCTGG
CCTTTCCTTGGGAGAGTTTCAATTCACCTACTCCATCTAGATATTTGTG
ATGTCCAAACACATCTCCACGTTAGGCTTCTATTTGTAGCATCAGACCCA
CACTTTCAACTGTCCACTAGATAGCCTCACTTGGATGCTCTGCAGGCCTA
AATAACCTTTGCGGACAGATTAACAGGGAAAAAATATTAATAGGAAAAA
TATTAGATTTTATCTGATGTTAATATTTCTATGTGGCATGGAGGACTTC
ACAGA
>99.1
GGAAGAGGGCCGGTTTTGCGGTAATTGGGGCGCCTCTTCCGCTTTCCTT
CGCTTCACTGGACTCCGCCTTGGCGCTTCGGGT
>100.1
TATGCATATCATCCAGGCAGCATAATGTTATATTTCAAAGACAGATTTAT
CCATTGAATTATTGTTTTTAAAGTTGGGATTCTCTACATAGAACATATT
TTCTGAAATTTCAAGAATATTTTCAAGTAAATTAAGAATTAATTTCTTCT
AAGACTATCCAATGTGTCTCAATCTATTCCATAATATAATCAATGATAAA
GATTCACATGTATCACCAAATTCGAGGCAGCTTAGTTGAAAAAATTTGAA
ACAGCTTACTGAATTCATTTGCTGATTCTGGGGGGGCTTCCCAATGGC
ATGTGTGCTCCTTTGGATGCCTGCAGGGGTGGTCACTGCAAAGTCGTCAT
CTGTGCCACTGGGAGTTGGGAGGCGGCCTGCTGGGGTTCCTGGGTGGCA
GGATTTACACCTGCTCCTCCTGCTGGAAGGCTTCCATCCTGGACA
>101.1
GCGGCCGAGCCCAATTCTTGATTCTTTCCATCCCAAACTCTTTAAACTC
TTGACCTCTGCAATTCATGTTGTGAACATGAACTTGTCTATCACCAGCC
TCTTCTCTGCATTCTTTCCCTCCTTGTATGCTAAAATTTGTGATGGC
CTCTGAAGATACTGCTCTTCACCCCTCTGAAGGGGTCTCCTCAGGGGAA
GGT
>102.1
ACCATAATAATGCAATTAACAAAATCCAGGATTTAAGGATTTCTATAAGA
TTAAAAAAGAGGTGGTGTGAGTGGGGAGAGAAAAAGCAGGAAA
CAAACTGGTGAGAGGAAATGACCCCTGATGAAAGATCTTAAACACCAG

Table 3

GCTGAAGATTTTAGATTTCTACCTATTAGAAATGAATATTCAGTGGTT
TGATGAAGAGTCACTGAAGTGTACAAAAGAAAACAAGATTTGAGAAAGAT
TCTTGAGAACTCGTGCATAGGAATGAACTGCAATAAGGGCAGATTAGAGA
AGAACTAGGCCATGAGGGCCTAGTATCCAGAATGAGGCAGAGGGAGGGAC
GCTGGATGTGAGCA
>103.1
GAGCTCCCCGCGGTGGCGGCCGAGGTACTCCTTTCTGTTTAAAGCCTCA
CCACTGACCAGGAAGTCTTGATAGAGCCATCTAGTAATTCTTAAGTCCTA
CCTCATCCAACCTTGTTTTGACTCCTGCAGTGAGCACAGCTTGCCCTCAC
CCTCCCCTCTCTATGCCCTCACCTTGCAGGAGACTCTCAATTTCTCAGT
CCACATCAGCTCTCAGACCACCAAAGCAAGGGTTATTTTT
>104.1
AGCTCCCCGGGTGGCGGCCGGGACACGTAACAGGGTGGTTGCATGCATTC
CTCAAGTCTGTATGACTCTACCAAGATACTGTGAAGTTGCCTTCTGATT
GCACATGGGGAGAAAATGCTGAACTAGTGGCCACAGATGTCTTTAATTC
CAAAA
>105.1
ACTTTCTAGGTATATCATGTGCCCTAATGTGCTCCTAATATCATAAATGT
TTACTTTCCGAAAAGTATTTCTGAAAGGGAGCATATTTTGGAAAGTGCAT
AGGCTTGTAATCATACTTGTTTTCAAGTTTCAACTTTGCTATTCAACTAG
AATAATCTTGCGAAAACCTGAGCTGATTTTCTCATCTATAAAATGGAAA
CAATACTTTCTGTGATAATGGGTGCAAAACACAAGGTATACTGGTTTCTT
TGCTCTGGATTCAAGTTTTCTTCTTAGTTTCAAAATTTTAAAGGGAAACC
AAAAATGTTTCATG
>106.1
GTCCGGTAGTGGGCAGCGATCAGGGCTGGGGCTCTTTCCTGAGTTGTGTC
AGGTGAGAGATTGTGAGAACTTGGCTTGCAGGGTTTGGGCATCAGCTGCC
CATTGAGGGGCCGTTTCATTGTCTCAAAGTGAATGTGGGGTGGTTTGATCT
GCATGTGTCATTTGTATCCACACAAGTTAATTATTCTGCTTTTGTGTAG
TACCTTGGTTGTGAAGCAGAAGCTACCAGGCGTCTATGTGCAGCCATCTT
ATCGCTCTGCATTAAGTAAGATGAGGATTCAGTCTTAATTTATGGGCACA
ATTTAGTTTCTCCACACAAATTTAGGCCTTAAGTCTTTTATTTTCTT
ACAGTGGGGTTTGGAGTAATATTCATACGGCATGGACTTTACCAAGATG
GGGTATTTAAGTTTACAGT
>107.1
ATAATTGCAGAGAAAGCTTGCCAACGGTGATAAGTAGGTTTGTCTAGCAG
CACTGATGCGTCGTGGAAGTTGATGGTCATGAACATACAGTGTGATAACC
TATCTGCCCTCTTGACCTTTTCTAGTAGTGCTATGTCAATTTGGTACTAA
GGTAGGTGAATTTTCCAAGTGTTCTTGGAAATAAGGAAACATCAAGAATA
ATGTAAAAGCCTCATATACAATAATGAATAATAAGAAATGTGAAGGC
TTCATTCAAGGTTGGGGTTTGGCAGATACATTGCAACAAAATGACAGAGC
AGCCAAGGTATTTAGGATAGTGGCCAAAGGATTGTAATGATGGCTTATGG
AAGTGTCAGCTGGATAAAGAGTGAAAATGAATAAAAACTAATG
>108.1
ATGGATTCTACATCAGGTGTCTGTGCCTCGCTGCTGAAGGATAACCCAGA
GTGCAAGGTCACTTTTGTGCTGAACAGGGCTGGACCTGTGCGACTTAAG
CAGACTTAAAGGATTCTATTCTTCATTCAAGTCCCCAGAGAAATTGGCT
CCTTATTTTCTTTACCTATTCTAGACTTCCTTTGTCTAGAGCCAGTT
TTGCAAGGGCACTTTTATCCATCTCAGTTATTCCCAGAGGTGACAGAAT
GAGTAAACCATATGGGGCAAATAGCATATATGAGCTAAACCAGTTAACTG
TTAACCAAGGCACATGGTCAATGCCTTAGTATTTTTTTTTTTT
>109.1
CCACGCGTCCGAGACACTTCTCTGACTAACCATAGACTATGTGGAAAATG
GTAGCTGGATTGCCTTTGGGTGGAGTCCTTGCCCTGTGGCATAGGAAACA
AAGGAAAGGAGAGAGATGCCCTTTGAGATTAAATGAAAATGCTCTCAGCCA
AATAAAATCTAAAAATAGCCTCCTTGTGATACGAACGCGTGGCCCCTAAG

Table 3

GGTCCTAAAGAGAGAGCTAGGGGAGGTTGAGCTGGCCACAGAGATGCTAA
AGGTCAGGAGCAGACTTTTAGGGTTTGCTGTTTTATAGGTTTAAAGACCA
GGTCTGTGTTTTGATAACTGAACTTGCTAATAGCTGGCCACTTGAGTTGC
TTCTTCCAGCTCTTTGTTGTTTTAAATAAAGAGATTGAGCCAGTAATAA
TGGGAAGAGCTGCAAATGACTTCCCCAGTTGGGAGTGCCTGCTTGTTTT
CCTTCTGCCTGGGCATGCTGATGTGC
>110.1
GTGCTGCCTGCACTGTGACTAAGACTTTCTGGACTATCATCATGTTTAGG
AGTTGATGAGATTATAGTTTCATGTAAGTGTATCATTAGATGACAACTCT
ACATCTTTAGGCATGGAACAAACATTTTTCTGGAAGAAAAAAGTGA
ACATCCAACCTCCATTTAAACAAATTTGATTGTTTCTTTGCTATTAAAGAA
ACTCGGTGCTCTTTCTCCCACTCTATTATATTGCAAAATACATCTGGAG
ACACTATATAAACTTTTTCTCCTTTAAATTACCTGGTTTATATATTATCT
CCTGTAGCCTGCATATAGATAAAGGTTAAACATAGAGGATTAGGTTGTT
GGTAATTTAATAAATA
>111.1
GTCGCGGGATTGGACCGACGCAGCCATGGTAGGTCCAGATCCCGTAGAAG
GGAGCGGGTCCCATAGGTTACGGCCGATTCTGAGCTTCTGGACTGAG
GGCCGCGGTAAGCAGTGGTCTGGGCTCCCGC
>112.1
GTGGCCGAGCGGTTTGCATCGCCAGCTCGCGCAAGGCCATGAGGTTGGTC
TGGGTGAAGAACGCATCGATGGCGGCACGGGCTGTTCCGGCACGTAGAC
CTTGCCGTACGCAGACGCTCCAGCAATTCGCGCGATGGCAGGTCGATCA
GCAGCAGCTCATCGGCTTCTGCAAGACCCAGTCAGGCAAGGTCTCGCGC
ACTTGACGCGCGGTGATGCCGCGCACCTGGTCGTTGAGGCTTTCCAGATG
CTGGACGTTGACTGTGGTGAATACGTTGATGCCGGCAGAGAGCAATTCCT
GAATGTCTTGCCAGCGCTTTTCGTGGCGGCTGCCGGGGCGTTGCTGTGG
GCCAGTTCGTCCACCAGCACCAGGTTGGGCTTGGCGGCGAGCAGGCC
>113.1
GGGCGCGGCCAGCCGACTGGACCCCTTAGCCTCGAGGCCCTTTGCTGAAGC
TCATGTGAGGGGGCGACTGCCCTGACAGGTGTTGGATTCCAGCTGCTGT
GGCCCTGAAGGTGGGTGGTGGGAAGAACGGGAGAATGAAGCCAGCCTTGG
GAGAGGTAGGACGCCAGCCCGGCCAGCTGCTTCCAGCATCTGGATCCAG
CCTCACCTGAAGCCAGCCACCTTCTGGAAGTCAATGTCAACACC
GAAACACAGGGTTTCTGACCATTGCAACCCAGGGTCCCGGCGTGTCTGTG
CTGCAGACCCTGCAGACCCCTATGAAGATGGTCTGCCTGCCTTGCATCG
GGCCTTAGCTAGGGAAGTGTGGTTGCA
>114.1
AGCTCACCGCGGTGGCGGCCGAGGTACGCGGGAAGCAACTGTCAGCTAGT
GAGATTACTGTGTATGGCCAATCCAGATAAATAAGACGATCAAGTCTTTA
TGAAAAGGAAAGAAAAATTTGGAATGCACATCTCTGTCCAGCTCAATTCC
TCACTCCTTTTTAAGATGGAGAGCTGTTAGGTTTGTCTACACAGTAGGA
AACACCTGATTAAATAACAGCATGGAGCCAATCTTGACAAAGAAATTGGC
TGCATCC
>115.1
GCCCCCAGGGCCCAGCTACTCGAAGAACAGCCAATGGATTGGAACGTCCT
AGGACAGATGCCACGGCTTTGACCCAGGCTGGGGGTGCACGGATCTCACT
GGGGTTAGTTGGTGGAGGGGAAGCCCCATGGGTCCACCAGGATGAGGT
GTTTAACCTATCAGGGT
>116.1
CCGCGGTGGCGGCCGGTAGCGCCGGTAGGCGGTGTGGACCAGGGGCTCGT
CGGTGGCGGCCAGCGAATTGGTGACGACGCTGATCTTACGTTGCGCCCCG
CGGATCTCGCGCATCACCTCCAGCCCCGTGGCACCCGGAATCAGGTAGGG
CGAGACGATGGTCACTTCGGAACGCGCGCGGCGCATCTGCTCGACCACGT
TGTAAGCGCACGCTGTGACATCCAGCAGCGGCACGCCGCGTACGACGCG
GTCTTGCCGATCACGCGGTGAGGCGAATCGGCATACGCCTCGGCGGTGGT

Table 3

CCAGATCAGGCCGAGCTTGCCGGCGTTTGAGGTCTTCGACCATCGGGCTG
TAGCCGAG
>117.1
TGAGCTCACCGCGGTGGCGGCCGAGGTACTCTAATGGAGCCACTCAGGAC
TGTCTTAAAAAGACAAAAATACCTCCTACAGTTGTTATCATCAACGTCAG
TTGCTGGCTTTTCCCTAAATTTGTCTTCTACCTCAGATCTAAACCATTGA
TAACATTAGGGCAATATCATGGCAATCGTGGCCCAGTAAACCATAGCAA
ATGTTTTCTCCCTAGGACACTATCTGTTTTACAGGAAAATTTTCTCAT
AGAAAACTGTAGGAAAAGCCATGGATGAGCTGAGAAGACCAACCTATC
TCTTGAAAAACAACAGTAGGGAGCGTGGATTAGAATGTCTTGGGTGCGTG
AAACAGGCAGACAATCCTGAAACATCTTTTCTGGGGACGTAAGGCATGAA
AAATTTCTATACACTTAGGAGGGCTTCTAGGAAACAGGAAACGACA
>118.1
GTGGCGGCCGAGGTACGCGGGGAACCGAGGCAGCAGCGGACGTGAGCGAT
AATGGCGGATATGGAGGATCTCTTCGGGAGCGACGCCGACAGCGAAGCTG
AGCGTAAAGATTCTGATTCTGGATCTGACTCAGATTCTGATCAAGAGAAT
GCTGCCTCTGGCAGTAATGCCTCTGGAAGTGAAAGTGATCAGGATGAAAG
AGGTGATTACAGGACAACCAAGTAATAAGGAACTGTTGGAGATGACAGTG
AGGACGAGGGAGCTTCACATCATAGTGGTAGTGATAATCACTCTGAAAGA
TCAGACAATAGATCAGAAAGCTTCTGAGCGTTCTGACCATGAGGACAATGA
CCCCTCAAGATGTTAGATCAGCACAGTGGGATCAGAAGCCCCCTAATGATG
ATGAAGA
>119.1
CGCGGTGGCGGCCGAGGTACCTGAACACCAGGCTCTTTACGGTCCCTGGC
CAGTGAAAGGGTCTAATATAAAACACACCGAGGCTGAAATAGCCGCTGCT
TGTGAGACCTTCCCTCAAGCTCAATGACTACCTGCAGATAGAAACCATCCA
GGCTTTGGAAGAACTTGCTGCAAAGAGAAGGCTAATGAGGTGCTGTGCCA
TTGTGTATGTCTGCAGATTTCCCCAGGGTTGGGATGGGTTTCATCCTACAA
CGGACAAGATGAAGTGGACATTAAGAGCAGAGCAGCATACAACGTAACCT
TGCTGAATTTTCATGGATCCTCAGAAAATGCCATACCTGAAAGAGGAACCT
TATTTTGGCATGGGGAATGGCAGTGAGCTGGCATCATGATGAAAATCT
GGTGGACAGGTACGCGGTGGCAGTG
>120.1
CGCGGTGGCGGCCGAGGTACCGAGCTACCAGGCTGTGGAATGAGACCGGG
AGCTTTTTCGTGCTAAGATGCCGTTACGGAAACATCGCTGTCGTTTCAAG
AGCTATGGGCATTGTTTCA
>121.1
CCGCGGTGGCGGCCGAGGTACAAGTTTATGTTTTCTTGGTGTAAGGCTT
TAACAGTTCCACCTTTCAGCTGCCTGGGCATTGATTGCTCACCTACCAC
TATGACTAGATATGATTCATGTGCTTTTACTAGATTCTTTGTCTCTTG
TGTATGAAAGTGAGACTTTAAGTAATAGTTACTGCTGAGAGAAATAGAA
GACGTGACAACGTTTGCTTTCCCATTCAGTAGTCAGCGTTGAATGGAAT
TATCTTCGTTTTTGGACTGACAGATTTGTTTTACAATTCAGCTATTCCCA
AGCCTTACTATTCAAAGCAGAACCTTCTGTCTTCTTTCTGTAGTTGCTC
TCTCTCCCTATATTCTGTTGTATTTTTTCAAATAACTTATTACTATCTC
AAGTAAAATTGTTTTATGTTTTGTTTTATCTACCCTCTTAATCAGGGCA
GGGATATGTCTGTTGTATTTTACTTTTCCCAAATCATAAAGTTTTTG
GAATCTGCTG
>122.1
ACCGCGGTGGCGGCCGAGGTACACACTGGATCTCCTTACTCATTTTTAAC
CCTGACTGGGACACCAGAGACATGCTGCATCTTGTATTAGGTGTTTCATC
TTGCAGAATGGCTGTGCTCCTGAAATATTTCTGTGAAGAAAATTGTTAC
AATCCCATACATCACTGGCTTTTATTATTAATTGAATGTTGGCTGGAA
ACAATTTTAACCCCAAATTGTGACAAACAAACTATATGGAAAAGGTC
>123.1
CGGGTGGCGGCCCGCCCGGGCAGGTACGCGGGTGTGCAACTGCAAACAGT

Table 3

AACCTGCTATGGC
>123.2
AGACTCAAACAGTAAGGTCAGAAATTTATCAAGACATTACATAGGAGTAA
GGGCACAGCCAGGGGTGGTGGGG
>123.3
GGAAGGACATTTTCCAGCACTAATTAACAGGTTTTATGATTCACTAGGTT
GGCCCACTACTGTTCTCACCTAATCCCAGGCCAGCGTGTGAGGAGGCC
AAATGACAC
>124.1
CTCCACCGCGGTGGCGGCCGAGAAATGTGCCAACTGCCGTCTTCCCTC
CTCGGCCGCTGCGACAAACACCCACAAAATGGCGGCAGCGCCGTGCCCC
TAGAATCCCCGAGTCGCCTCTCCCCGCGT
>125.1
ACAGACTTTTCAATCAACAAATATTTATGCATCAGCTACATGCCAGGATCT
GTAATAGATTCTGGGTGTGCAGTAGTGATTACTGCAGAATGCAGACATGG
TCCCTGCATTCTTGAGAGGGAGACAGCAACCAATAACAATTACAAAA
AGTATGTAATAATTAACAAGTGGGAGAAAGGGAGTGGGATTACACAGCAG
AAGTGAAGGAAGGGCCCACTTAGAGTGGTCAAAGGCTTCTTGAAGGTAA
CATGTAAGCTGAGACCTGAAGAAGGATGCAAAAGGGCCAGCATGTAAGGA
ACAGAGAATAAACATCCCAGAAATAGAAAATAACACACAAAAACCTAAAG
TCATTAAAGAACATGATCATCTTTCAAGAACTAACCCCTTGAGATCAGAGT
AGTTTGATTATAGAGGAAAGGGGTGAGTGCAATGAAACGTTAAAAATAGC
CAGATCACGTAGAGCTCTCTA
>126.1
AGCTCCCCGCGGCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGC
CGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGACTTACAGAGAGT
TCCAAGAACTATGATCCTGCTTTACATCCTTTTGAGGTCCCACGAGAAT
ATATAAGAGCTTTAAATGCTACCAAACTGGAACGAGTATTTGCAAAACCA
TTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCA
>127.1
GGTACTGAAAGTGAGGTGAAAAACAAGAAAGCTGAGAGAAATCAACATG
TTCCCAAGTGCTGTATGTGAACAATAAATCTGAGACATACCTCTAAGGCT
TTTCCAGAGACAAGAAAGCTCTCAACCTGTAAAGAATTCCTGGGACATGA
CTGAGAGCAATGAGAACTCCAGGCAGAAGGTTAGCAGATATAGTGTAGAG
CATACACAGATATACTATAGTTCATAAAGTGGTGGCTTAGCTGTAAATC
ACAAAATAGCACTGGAATTATACTAGTATGATCATAGCACATAGTCCAAGAA
GAAAAAATTTTGATCTTGTCTTAAACTTTGTGGAGCCAGTGGTGAAATG
AGTCACACAAAGATGCAACAATG
>127.2
ATGAACCCAGCCCTCTTTAGACTAACATATTCTTGCCCATCACCACCAAT
ATTACAATAAAAAATCAAGACACATGAAGGAGCATACCT
>128.1
TTGGAGCTCCCCGCGGTGGCGGCCGCTGTGAAACAATGCTCATAGCTCTT
GAAACGACAGCGATGTTTCCGTAACGGCATCTTAGCACGAAAAAGCTCCA
CGGTCTCATTCCACAGCCTGGTAGCTCGGT
>129.1
GTGGCGGCCGCCCCGGCAGGTACAGTCAAGGCCGAAAACCACTGAGCTTTT
CCCTCTGCCTGGCACATATCCACTGCCCTGCCCTTCTTCACTGATGAAC
TCTTCATATGCCTCCTTTTGGGTGTGAGTGGAAATGTCACTTCTTTCTAG
AAGCTTCTCTGGCTCTCCAGCCTGGCCAGGGCTCCAGCTATGAGCTTC
CATAACACCCCTAGTTTTCTCACATTGCCCTCATAGTATATGGAATTTG
TTCATTCAATTGCCTGGCTTCCAACAGATGCCAGCTCCAAGAAGGCAGGA
GCTGCTTCTGGGTATTGCTTGCCATCAAGGCCCTCACACCCAACCTAATG
CCTGGGCCAGAGTAGGTGC
>131.1
TGAGCTACCGCGGTGGCGGCCGCCCCGGCAGGTACCTATCTGCAGAACGG

Table 3

TCATTAGCAGTTTTTCCAAACAAGCGACTTTTAGCAAATTAACCGTTAAT
TTTAATGAGATTCAAAAGTTAATAGCCATTCTTAACGTTTTATAATTAGA
AGCTGTTATATAATTAGAGCTGGACACCCACATGGAGAACTAATTTGAC
TGTGCTGCATTTGACTTCACTTTGGTAACAGGAAGCACTTTTTAGTCTGT
AGACCCTTGGGAGTTGTAGGGAGTTAAAGCTGATCATTATATACTATTAT
ATACTTAGGGATACAACCCAAGGGCAACCCCTGGCCTTTATGAAAACCTG
GAGTGAGTTATTATTTCTGGTAATACAATTCTCTGCCAGCCAGTTGCTG
CATCAAAACAGTTCTGATACACACCTAAAGTCACCACTTCCTCATTCT
GGTCCCAATAACCCCTATAAGCCTCTCTCCTTGTAGGTGACCTCTGCCCT
GTGAAGGGTTGGCTCACCCAAGA
>132.1
GTGGCGGCCGAAACCGTGGTGGCCGTGATCGTGCCGTTGGCGGACGGAAC
CTTGAAGATGTTCTGGGCGGCCAGCACAAATCGCCGCTTGGCGACGATGA
CATTGTTGGCCTTCAGCCCGTCAATATCGCCCTTGATGTCGATGTTCTGG
CTCTCCTCATCATGGCTCAGCGCAATGGCGGCGTTCCGCTTGGCGGTCCG
CTCCACGAGGAACAGGGCTGCGGCCGTGACACATCGCTGGACGCGAGGG
TCAGGTTGCCCTGAAGCAGCCCCTTCTTGCTGCTGGGTGACATCACCGCG
AGCCGCGTGCCGCGCGCAATGAACTGGATATTGCTCAGGCGTTTTCTGTC
CTTGTCAGGGCAAGTTCCGTGGCAAGATCGGCCGACGCGCTCGAGGA
ACGCCAGACCGGATACCTTGCCGTCCGCGCGTCTTGACAGAAAGTCCGT
GAAGGAGAACGCGCCTTCTGAGCTTGCCCCGAAAGTTTGCCATCC
>133.1
GTGGCGGCCGAGGTACGATAATTCATGCCAATTTCTTTGGGAATACTTGT
TTCTGATATAATAGGTTACAAAGCAAATTTGAGATGATTTTTAAATGCC
ATGCAGTTATTTTTCTGAATAACATAAATTTAAACAGAGACCTGAAAA
AAACCCCAAAAGTATTAACCTTTAAATACATAAACTCAATAGAAATAATT
TAACTGCCCTTCTCTTCAAGAGGCAATCAGAAGGCAGGACTATAGTTTT
CTGTGTTTCTTTTCCACAGGAGAGATAATTACATTTCTAGAGACCCATAG
AAACAATTCCATAGTTTTAATTTCTCTCTCTATCTCT
>134.1
GGATGCAGCCAATTTCTTTGTCAAGATTGGCTCCATGCTGTTATTTAATC
AGGTGTTTCTACTGTGTAGACAAACCTAACAGCTCTCCATCTTAAAAA
GGAGTGAGGAATTGAGCTGGACAGAGATGTGCATTCCAAATTTTTCTTT
CCTTTCATAAAGACTTGATCGTCTTATTTATCTGGATTGGCCATACACAG
TAATCTCACTAGCTGACAGTTGCTTCCCGCGT
>135.1
AGCTCCCCGCGGTGGCGGCCGAGGTACCTCTCCTGCAGGGCCCTCCATTC
AGGGTCTTCTGGAAAAACCCCTGGAGGAAGCGCTCCTGTTGCAGTCGGA
GTGAACACCCGTCTTGTTAACCAACAGCAGGGGGATTCTTTCTGGAGA
GTCCATGTAGTCATCATCTTTGACCTCTGCATTTTCCCCAGAAAGGC
GAGCATGTTACTTGTCTCTTGGGATCCGAATGACAACTCCACCAGATG
TAAATCACTTTCTAAACAACTATTTGACAGACTGCTCCACAAGTCATCA
TTCTTAGCATTTCTATAGCTGAACCTCTTTAAGT
>136.1
CGCGGTGGCGGCCGAGGTACTTAAAGTATATCAGGGCAGTTTCATGCCA
GGGAGCCAGGGAAGGCACCCAAGGAAGTGATGGAAGAGTAGAAGTTCACC
AGGTGCAGCTCAGGAAAGGGCTCAGCAAATTTCTCTGTAAACAGGATGCAG
ACCCCGCGT
>137.1
GCGGCCGAGGTACTAAATTTAGCAACTTTATTCATGAGGAACACCAGTCC
AATGGTGGTGTCTTGTCTTCTCATGCTTACATGGATGAACTCTCATTTTT
GTCTCCAATGGAGATGGAGAGATTTTCTGAGGAGTTTCTTGCTTTGACAT
TCAGTGAAAATGAGAAAAATGCTGCTTACTATGCTTTAGCAATAGTGCAT
GGAGCGGCTGCTTATCTCCAGACTTCTTGGACTACTTTGCTTTAATTT
CCCCAACACTCCAGT
>138.1

Table 3

CAGTTTGCATACATGCTAAACAGAGAAATGTCCTCAAAATTCAGTTACTA
AAAATTACTGATATCTCCATGATTAGAACCACACTGTGGTTGTGTGTGA
GTCAAAGGAGGAGAATTTTAAATGCTATATAAGCATAACTGATAACTGCT
ATTACAAATAAATATTCCACAAATTTGGAAAGTTATTAGAGGAAGAATTT
TTTTCTTGTAATTTCCAGGTGTTTATATTAGTTGGGCCATAGTGAAAA
TTACATGGAGGAAAGAAAATAGGAAAATAAGTCACAGAAAAAGAAAATCA
AAACAAA

>139.1

TTGGAGCTCCCCGCGGTGGCGGCCGAGCCCAATTCTTGATTCTTTCCAT
CCCAAACCTCTTAAACTCTTGACCTCTGCAATTCAAGTTGTGAACATGAA
ACTTGTCTATCACCAGCCTCTTCTCTGCATTCTCTTCCCTCCTTGCTAT
GCTAAACCTTGATGGCCTCTGAAGATACTGCTCTTCACCCCTCTGAAGG
GGGCTCCTCAAGGGAAGGT

>140.1

TCACCGCGGTGGCGGCCGCTGTGAAACAATGCTCATAGCTCTTGAAACGA
CAGCGATGTTTCCGTAACGGCATCTTAGCACGAAAAAGCTCCACGGTCTC
ATTCCACAGCCTGGTAGCTCGGT

>141.1

TGGCGGCCGAGCCCAATTCTTGATTCTTTCCATCCCAAACCTCTTAAAC
TCTTGACCTCTGCAATTCAAGTTGTGAACATGAAACTTGTCTATCACCAG
CCCCTTCTCTGCATTCTCTTCCCCCTTGTTATGCTAAACCTTGATGG
CCTCTGAAGATACTGCTCTTCACCCCTCTGAAGGGGGCTCCTCAGGGGAA
GGT

>144.1

CTCCCCGCGGTGGCGGCCGTTGCCCTTACATCTCTCATTTGGAAGTGACA
GGTATTAATAACGGCATATGAAAGCTTAAAGTCATCAAATACAATCAC
TGGGTACTTTCGATTACCCAAACCAGGCACTTCTCTAAACTCCCCACTTC
TTTACTTCTGCGGTCTCCTTTCTTTTATTCCCCCGCGT

>145.1

ACCGAGCTACCAGGCTGTGGAATGAGACCGTGAGCTTTTTCTGTGCTAAG
ATGCCGTTACGGAAACATCGCTGTCGTTTCAAGAGCTATGAGCATTGTTT
CACA

>146.1

CCCGCGGTGGCGGCCGTTCTGCTTAGCCAGTTTATTCTTTATTTTTTAC
TGGAGTCATTGCCAGTGATGGAACCGGTGTTTGCTTCTTTTCAGTCAAG
ATCTGCACAAAGTATAGCATTAGGTGGTATTTATTGTTTATATTATGAGT
TCTACATTCATCTTCCAGCACTCTGAAGTTATCAGCAAGTTCTCAGTCA
GTTCAAGGCATTGGATTCTGCTTGATTCTTTTTAATTCATTGTTTTGA
CCCCTTTGAGAGTTTAAATAGAGAGGAGTCTGGAAGGCAGAGATCTCCAC
CACCTAACCGTGAGAAATTTGGAATAAGGACTTGCACTGGTCCCCAAGT
TAACAGTGGATATACTTCCTGCA

>147.1

ACCCAAGGTGGGCATTTTTTTAAAAAACCATGGAAATAAATGCTACTTC
TTGTTAGTGTTGTTTAAAAATAAACAAAGAAAATGCAAAACAAAACAAAA
CCATGGTCCATTCAAGCTCAAGAGTATTTAACCAATGCTCTGTTGCCTCT
TAAAGGATTGGTAGCTATTTCCCATCTACAAATACATGACAATTAATA
AGCCCAATTCTTAAACTATCTGGAATTAGGTCAAATATCTAATTTT
TTTCTGATTTAATTATGGATTACGTAATCCAATAGTTGGCAACATTATAA
AACCCTAACTTTACCTCATTGTTTGGCTATACCAGGTCTCATGACTCTGG
ACATAACCACCA

>148.1

GTGGCGGCCGAGGTACCTATGTGCGCGGTGGTAGAAAAGCACCTGGGTCTG
GGTGCAGACTGCGGAGCGGGCCCTACCGTGTGCGCAGAAAGAGGAGGCGC
TGGACTTATCCTACCTTAAGTTGAAGCAGACCAGCAATTGTTGTGACCTA
CAATCTCCACCCCATCTTACTCTGAGCCAAGGAAGTGTCTGTTCTTGT
GCTGAGTTTCAGGGGCCTTCAGCTTGCGGGAATCCCGAAGATGGCCAAA

Table 3

GACAACTGAACTGTTTCGTTGCTTCCAGGGCCTGCTGATTCTTGAAATGT
GATTATTGGTTGATGCGGCATTGCCCTGACTGCCGAGTGCA
>149.1
TTGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTCCCCTGAGGAGCCCCCT
TCAGAGGGGTGAAGAGCAGTATCTTCAGAGGCCATCCAAGTTTTAGCATA
ACAAGGAGGGAAAGAGAATGCAGAGAAGAGGCTGGTGATAGACAAGTTTC
ATGTTCACTAATTGAATTGCAGAGGTCAAGAGTTTAAAGAGTTTGGGATG
GAAAGAAATCAAGAATTGGG
>150.1
GGTGGCGGCCGCTGTGAAACAATGCTCATAGCTCTTGAAACGACAGCGAT
GTTTCCGTAACGGCATCTTAGCACGAAAAAGCTCCACGGTCTCATTCCAC
AGCCTGGTAGCTCGGT
>151.1
CCCCCTGAGCCATGGAAGATACTGGAGTTAACAAAAATTTTATAAACTA
AAGAAAGCAACTTTATAATCTAAAAGAAAGCAACTTCCCTCCTGTCTTT
TGAATTCCTTATCCTGAAAGAATGGATAATGAATCAGGAGATGAGCAAAA
ACGTATCTTTTACAAAGCTCTAGTCTTCCAAAAGCCTCTAAACTCAAACG
AAACCTTTTTAAAGTAGTTTGTAAAAGCTCAAGGTATGCCATTTCCAGA
AAGTTGCAGATGAGCACCATTGGCATTACCCAAATTCTGTCACACATTGA
GCAATGAAATTCAGGAATTGGACAATGACCTCTTGGCATATGAAAGAATT
AAAAGAGGGC
>152.1
GCGGCGGGTCCACCTAAAAAGTCACTGCAGCAGAGAAGAAAACATTGGAC
AAAGAAGAAAGGCGACAGAAGGCTAGAGAGAGGCAGCAGAAATTGCTTGC
GGAGTTTGCTTCACGACAGAAAGGCTTTATGGAACTGCAATGGATGTTG
ATTCTCCTGAGAATGATATTCCTATGGAGATCACCACGGCAGAACACAG
GTTCCGAGGCAGTATATGACTGTGTTATTTGTGGACAGAGTGGCCCCCTC
CTCTGAAGATCGACCTACTGGATTAGTTGT
>153.1
GGTGGCGGCCGAGGTACACCTGCAACTGTGCGAATGGTCCCTGTTGCCTCC
TGCATTTTGGCCTCTGTTCTATAAAGGAAGAGTAAAGATGGAGCTCCTCC
TGCCTCCATCACGAAAGCACATATCATCTGTCCCTTTGGATTTTACTTCC
AGGACGCGTGTCTGTCGCCAGCGTGTGTTGCCCTTATGGTGCCGGCAGAGCC
TCAGCTATCTGCCTGGGAAGTCGGATGTCTTGGAGAGAATTTGGAATGC
AGATAATTTTCTTATTTCTTGAGAGCTTACTTTAATCAGCATGACACTA
CCTAAACACTGAAGATGGCCTTATATTAGTAAGATTTGCACAAAATTAAG
TATACCTATGCAAACTATTACTTTGGTTTTTAGGAGTTTGGTCAGATGAA
GAAGTAATGGGATCACATATATATGTAAG
>154.1
TCCACCGCGGTGGCGTCCGGCCCCCGCCTTTTCTGCGGCTTTCAGCGCGC
GTTTCAGGTGCTCAATGAGGTGCTCGGCATCTTCGAGACCGATGGACAGG
CGGATCGTGCCCTGGCTGATGCCTGCGCCCGCCAGCGCTTCGTCGCTCAT
GCGGAAATGCGTGGTGCTGGCCGGGTGGATCACCAGGCTGCGGCAATCGC
CCACGTTGGCCAGGTGGCTGAAGACCTTGAGGGTTTCAATGAACTTCTTG
CCCTGCTCGCGGTTGCCCTTGAGGTCAAAGCT
>155.1
GTGGCGGCCGCCGGCAGGTTTAAAAAGAACATGTATAAACGCTTAGCAA
ACCCTTTTTAATGTTCTGAAGTCAGTCTTTGTAAGTGAATCGCTGGAGA
CTAGAAAGTATGAAATGGCAGTCTACCTGGGCAACCTACAAAAAATTAG
CTTGAAAAGACTTCAGTCTCCGCTCCCCTGTTGATCTCATGGAGTGGGGA
ATGGGAATTGAACCAGAACTGGAAAATTATTTAGGAAAGTTTGTAACTA
CTCTTTGTTGATCTCATGGAGTGGGGAATGGGAATTGAACCAGAACTGGA
AAATTATTTGGGAAAGTTTATTAACCTACTCTTTCTGCTGAGTAAATTTAA
ATGTGTTCTGGACATTGTTGAGGTCTAGAATTGTCTATACAATGCCCTGT
ACC
>156.1

Table 3

ACCGGGCTGGCGGTGCGCCGCTCTGGTGCTTGCATCTTGGCTTCCTATAG
CTTTCTTTTTTACAGAGGCCATGAAATGCAATCCAGCTGAAGTATTATCA
TCTTGATGACATTTCAAAGGAACGTCGAAGTCATCCAAAGGATGGGAACC
ACAATGTTCTTGTGTTCTTGGGTTTCTTAATGATTTCTGAATCATCAT
TATTAATTATGGAATTCTCTGGTCGAAAAGTCACATTTGGTTTTCTCCTC
AGTTTCTCACATCTTTTTCTTGCAGCTCTTCTCAGCTCTTCTCCTTG
CCTTTTTTACTGTCTTCTCCTTGTCTTACTTCAGGT
>157.1
CGGGGGCGGCCGAGAAATGTCGCCAACTGCCGTCTTCCCTCCTCGGCCGC
TGCGACAAACACCCACAAAATGGCGGCAGCGCCGTGCCCCTAGAATCCC
CCGAGTCGCCTCTCCCCGCGT
>158.1
TGGCGGCCGACTCGCTGACCAGACCAGGCCCCAGGGCCCAGCTACTCGA
AGAACAGCCAATGGATTGGAACGTCCTAGGACAGATGCCACGGCTTTGAC
CCAGGCTGGGGGTGCACGGATCTCACTGGGGCTAGTTGGTCGGATGGGAA
AGCCCCATGGGTCCACCAGGATGAGGTGTTAACTCTATCAGGT
>159.1
ACACAGGACCAATGCTGCCCATCCACATGGAATTTACAAACATTCTACAG
CGCAAAGGCTCCAGACTTTGATGTCAGTGGATGATTCTGTGGAGAGGCT
GTATAACATGCTCGTGGAGACGGGGGAGCTGGAGAATACTTACATCATTT
ACACCGCCGACCATGGTTACCATATTGGGCAGTTTGGACTGGTCAAGGGG
AAATCCATGCCATATGACTTTGATATTCTGTGTCCTTTTTTTATTCTGTTG
TCCAAGTGTAGAACCAGGATCAATAGTCCACAGATCGTTCTCAACATTG
ACTTGGCCCCCAGATCCTGGATATTGCTGGGCTCGACACACCTCCTGAT
GTGGACGGCAAGTCTGTCTCAAACCTTCTGGACCCAGAAAAGCCAGGTAA
CAGGTTTCAACAAACAAGAAGGCCAAAATTTGGCGTGATACATTCTTA
>160.1
ACACAGGACCAATGCTGCCCATCCACATGGAATTTACAAACATTCTACAG
CGCAAAGGCTCCAGACTTTGATGTCAGTGGATGATTCTGTGGAGAGGCT
GTATAACATGCTCGTGGAGACGGGGGAGCTGGAGAATACTTACATCATTT
ACACCGCCGACCATGGTTACCATATTGGGCAGTTTGGACTGGTCAAGGGG
AAATCCATGCCATATGACTTTGATATTCTGTGTCCTTTTTTTATTCTGTTG
TCCAAGTGTAGAACCAGGATCAATAGTCCACAGATCGTTCTCAACATTG
ACTTGGCCCCCAGATCCTGGATATTGCTGGGCTCGACACACCTCCTGAT
GTGGACGGCAAGTCTGTCTCAAACCTTCTGGACCCAGAAAAGCCAGGTAA
CAGGTTTCAACAAACAAGAAGGCCAAAATTTGGCGTGATACATTCTTA
TGGAAAGAGGCAAATTTCTACGT
>161.1
GGCCGAGGTACCATCCTATTAATACTAATTCTGCTTCTACATACTGTAG
ACCTTTCTGGATGATAGAAATCAATGCAGCGGGTGGGACGAGGGCACCAT
TTATATTGACTGACTGATATGGCTTTCTATACCAAAGGTAATGCTGAA
TGAGAAAATCCTGACTCTTGCAAGTATCTATATACCAAGAAGTTGACCTC
ATCACTGCTTATACTCATCTTTATCCCACTTAAACCATGAGGTACACC
ACAGGATATAACCCATTGGCAGTGCATTGATGTGGGGATGTGCAACTGAA
TATCCGGGCACCGCCAATCACAAGTTGCTGTTGTTGATGCTGGAAACGGT
GGCCTTCAACGCCGCTTCCCCCTTCCGGGAATCCCCGCG
>162.1
GGCGGCCGAGGTACCTGGCCTGCTGGCATAGTTCTTTGACCCGTTTCATAT
TTGGGCAAGTGATTTGACTGTTGGATATTCTTGCTGGATTCTCCTTCTT
ACGTAGAAATTTGCCTCTTCCACTAGGAATGTATCACGCCAAATTTTGG
CCTTCTTGTGTTTGGAAACCTGTTACCTGGCTTTTCTGGGTCCAGAAGT
TTGAGGACAGACTTGCCGTCCACATCAGGAGGTGTGTCGAGCCCAGCAAT
ATCCAGGATCGTGGGGGCCAAGTCAATGTTGAGAACGATCTGTGGGACTA
TTGATCCTGGTTCTACACTTGGACCACGAATAAAAAAGGCACACGAATA
TCAAAGTCATATGGCATGGATTTCCCTTGACCAGTCCAAACTGCCCAAT
ATGGTAACCATGGTCGGCGGTGTAAATGATGT

Table 3

>163.1
TGTACATTGTCTTAAAACTGTGGCTTGCCTGTTCAATTCATTAGTGGTG
TTTTGTTAAGCAGTTTTTAATTTTGATGAAGTGAACCTATTCATTTTTT
ATTATGGTTATTGCTTTATGTTTCAGGTCCCAAATTTGCCTTCTCACAA
ATCACAAACATTATCCTATGTTTTCTTCAAAAATTATATG
>163.2
TACTAAAGAAATTTGAGGGATTTGCTATAATGTTAGGGATTTTTCTAGAT
>164.1
TATTTAATTTCTTAGTGTCTCAATTTCTCCTCTATAAAACAGAGATAAT
AGTATTTAGCCAGAGGGTTGTGGTGAAGTG
>165.1
TAGTAATCAACCTGTTAATCCAAGGTCTTTAGAAAACTTGAAATTATTC
CTGCAAGCCAATTTTGCCACGTGTTGAGATCATTGCTACAATGAAAAAG
AAGGGTGAGAAGAGATGTCTGAATCCAGAATCGAAGGCCGTCAAGAATTT
ACTGAAAGCAGTTAGCAAGGAAAGGTCTAAAAGATCTCCTTAAACCAGA
GGGGAGCAAATCGATGCAGTGCTTCCAAGGATGGACCACACAGAGGCTG
CCTCTCCCATCACTTCCCTACATGGAGTATATGTCAAGCCATAATTGTTT
TTAGTTTGCAGTTACCCCTAAAGGTGACCAATGAT
>166.1
TGATGAGCTCTCTAATCAGCAGGACCAAGGTGTGAAGTGGGAATGAACAT
GGATCCATCCCATTGGATGGAGAAGAAAGGTGGACAGCCTGTTCTGTCTCT
CATGTCAGCCTAGGGCTGGGAACAGTTTGTGAGGACTTATCTGTTGTACC
T
>167.1
AGCGCAAGTAGGTCTACAAGACGCTACTTCCCCTATCATAGAAGAGCTTA
TCACCTTTCATGATCACGCCCT
>167.2
CCCCTACCGCCAATCCCTTTTTACAATAAAACAGGACCGAAGGGTCCAAA
C
>167.3
ACCTTGAAACCCCTAACC GAAGTTACCCTTCGGGCCCGCTTCTTAAGAAA
CTAAGG
>168.1
CCGCACGCTGGCATTGCATCTTCAGGAGACGCTCGTAGCCCTCGCGCTTT
TCCTAGGACAGTTTCGCGGAAGAAGTGGCTCACGCCCTCCAGAGCCACATC
ATCGCGGTGAAATAGAAGCCAGAGAGAGGTAGGTGTAGGAGGCCTGCA
GGTACCTCGGCCGCTCTAGAAC
>169.1
GGCCGCCCGGGCAGGTACTTCCACTATTATTGAATGTATTCTGTATTATA
ATTGTATATTTGATTGCCTATCTCCCCTCAACTGCATTATACATTTTCAT
GGGTGAGCCAGTGTCTTTTTCACTCTATTTCACTGCCCCTGCACATTTTCT
GGCACATAGTAAGCAT
>169.2
AAAATACTAAAATCCGAAATGCTCATAAAATTCAAAGCTTTTTTGAGGAC
CTGACCTCGTGCCTCAAAGGAAATGCTCATT
>170.1
TGGCGGCCGAGGTACTTAGCTGTGTTTTTATTCAAAGTCTACATTTTATG
TAGTGGTTAATGTTTGCTGTTCAATAGGATGGTTTCACAGTTACCATACA
AATGTAGAAGCAACAGGTCCAAAAAGTAGGGCATGATTTTCTCCATGTAA
TCCAGGGAGAAAACAAGCCATGACCATTGTTGGTTGGGAGACTGAAGGTG
ATTGAAGGTTACCATCATCCTCACCACTTTTGGGCCATAATTCACCCA
ACCCTTTGGTGGAGCCTGAAAAAATCTGGGCAGAATGTAGGACTTCTTT
ATTTTGTTTAAAGGGGTAACACAGAGTGCCCTTATGAAGGAGTTGGAGAT
CCTGCAAGGAAGAGAAGGAGTGAAGGAGAGATCAAGAGAGAGAAACAATG
AGGAACATTTCAATTTGACCCAACATCCTTTAGGAGCATAAATGTTGACAC
TAAGTTATCCCTTTTGTGCTAAAATGGACAGTATTGGCAAAATGATACCA

Table 3

CAACTTCTTATTCTCTGGCTCTATATTGCTTTGGAAACACTTAAACATCA
>171.1
GGCGGCCGCCCGGAGCGGCGCGGAGCATGATGGAAGTCGTAGTAGGAAAT
GGCGTCGTGGCATTGAGGGGCATCCCTCCTAGAACCTCCAGGAAAAGCTC
GCGGAAGACGAGGTTCTGCGGAGAGAGAGGCTCCAAGCAGTCTGGGAAGT
GTAGTCCAGTTGGCTTAGCAGTAGTTTCGTTGGGGGGGAGCCGAGGTTCC
GGCAAGGGGCTAGGCCGGCTTGAAAAGAGATTATGACTGTACCTCGGCCG
TCGAGCGGCCCGCCCGGCGAGGTACAACCTTTATACAACCTCAGGAGATTAA
AAAAAATCTCCACAAGAAGAAGCAACTCAGCAGGCCCTGGCATTAAAC
ATTTCCAGAATAAACAGATATGCATTGCATTAAAGGTAATTTTCAAATA
TTTAAGTTACACCAAGATTTCCCTCCAATATGTGCCTTTCTCAAACCAAT
GCAACTAATTCATTGCTAATACTGGGGCATGAATTTTGGCAAATGTTTA
TGGTTTACTTTCTTCATTAATCAAAAATTTTTTAAAGTGCTACCAAGC
AGCAAAACATGTGCGCATCAGTTCTCTGCTCATGGCAGAAGTGCCCACTGT
GAAA
>172.1
GCGGCCGGGTACAGATTTAAGGTTGATGGACTCAGGGTAAGGATAGCTAC
AGCTGTGTGGGGCTGAAGGTCTGTGGCACTGAGCTACTGGGGAAGGAGGG
CTCTGTTTTCAATTGTGACACACTGAGTTAATAAAGCACTTACTGAGGGAG
CCAGAGCCCCAACTCTAAATGTGCTGTAGAAAAAGGGCCAAGTCATTGAC
TGCACCACTCCTTCAGCCAGAGGTAGAAAGGATTTACTCTTCAGCCATCT
GGTAGAGCCCCAAGAACAAGTTACATGTGGACAAAGGGAGGGAGAGGTAT
CATGGTGATTAATAAATTCAAACAAAGCTGAATGATAAGACCCAGGATG
GAATACAGTCTGAGAAAGGCCTGGGCAAAGGGAGGCAGAGGGACTGAAGG
AAGCAGGTCAAGGAAGATACAC
>173.1
TGGCGGCCGAGTACGCGGGATAGGTGGAAAAAAACACTGCCATTACAAG
TCAAGGAACCCAGGGCCAGCTGGAAGTGTGGAGCACACATGCTGTGGAGC
ACACATGCTGTGGAGATTGCAGTGTGTCTGAGGTTTGTGTAGTAGTGGA
GATTTTAGGTATGTAGAGCAAGTTGAAATGGATTGAGACTGCATGGGGGC
ATAAATGAGAAATTGCCTGTAGCATCTAGTCTACTTGAAGGAAGTGGAGA
CATAAGGAGAGACAAAACAGGTTTGTGCCATAAAGTATTTTTTCAAAGA
CACCAAGATGTGGGTAATGAAAATTATTAGTTTAC
>174.1
GGTGGCCGAGCGGCCCGCCCGGGCAGGTACCACTAGGGTGTTGTTAAAGGA
CTTGATAACCAGCTTGAAGAGGTTCCCTACTGACCAGAAATGGAATGAAAT
TTAAGCATCAATAAGGGTAATAACTGCAAGAGACTGACATCCACTATGGT
TTAAATCCATGAGGTCACAATGATACTTAATTTTTTCAATTATTCTGAAAAC
CAGTAAATAAAGGCTAAGATTCAACAAGCATTTATCCAGCCTTCTCTCAA
TGAAATATATCTTAAGAGAACCGAA
>175.1
AGGTACCAAAACCTGGGGATTAAGCTAAGAAGTCTGGTGGAGAGACTCTG
TGGACGTAAAGAAGGGAATGAACACAGAGAACTTTTCCAGCCAGATTCTG
AGTGTACCTGAACAAGAAAAGTCAAACCTGGAGTGAAACCATGCAAATGC
AGCGTGTGTGGGAAAGTCTTCTCCGTCAATTCATTCTGGACAGGGACAT
GAGAGCTCATGCTGGACACAAACGATCTGAGTGTGGTGGGGAATGGAGAG
AGACGCCCCGGAACAGAAACAACATGGGAAAGCCTTCATTTCCCCCAGT
AGTGGTGCACGGCGCACAGTAACACCAACTCGAAAGAGACCTTATGAATG
CAA
>176.1
ACGCGGGGTGCTGTGAAGAGCTTTGCATTGTGGGAAGTCTTTCTTTCTC
GTTCCCGGCCATCTTAGCGGCTGCTGCTGGTTGGGGGCCGTCCCGCTCC
TAAGGCAGGAAGATGGCGGCCGCACAGAAGACGAAAAAGTCGCTGGAGTC
GATCAACTCTAGGCTCCAACCTCGTTATGAAAAGTGGGAAGTG
>177.1
TCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTATGAATTA

Table 3

TTTATTTTCTTTCTCAGAAAAGGATGCGCCTCCACTTAGCAAGGCTGGGC
AGGATGTGGTTCTGCATCTCCCCACAGACGGGGTGGTTCTAGA
>178.1
TGGCGGCCCGCCCGGGCAGGTACCAAACCATTTTCACTAGTTCAGGATAGG
AATATTCATCAGATTGTCTCTGTAAAAGTGAATCACAAAAATTCCACCTG
TG TAGGTGTGGGACTGGACAGCTGAGTGACAGGGCCCTGGGAAGAACAGA
AACCACTTTCTCTTTCTCTGAAATATCAGAAGTTAAAAATCTACTCT
GAGTTATATGTGCATCAATTTAGACATATTGCTGATTTTATTATGAAAA
TGAAGTGCTAAAGACAAAGGATATTTCCATTCTCTGGACAGGCAGCCAC
AGACCAGCACTGCTTGACCCATGTGTATACACATGTGTGCTTTGT
>179.1
CGAGGTA CT CACAGTCACGCAAATTCAGTGTCTGCGTGACGGCTCTCCA
TTCTTCTTCTTGGCTTTACAGGTTCCAGGTCAAGAGCTTCACCCATAAT
TAAGACCTTCTGAGGATGAGCGATAGATAAACACACCTCCTCTGAACCAT
CCTTGGGCTTCATGGGGTTGGCATTGAGGATCCCTACGACAGTCCCCTGC
TCCGTCTTCCAGAGCGCTTTGTGAACCTTCTCAAATAAGAACAAAGGACAC
ACATTGTGT CAGGT CACGAAGATCATT CAGTTTCCATATGCTGAAGGTTT
TTCCACTATTCACACTCTGTGGCGTAACCTTCTTCAATATAACCCCAAAT
GTCACCCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGAT
CTGAGACAGTCTGATCAGTTT
>180.1
GCGGCCGAAAAC T GATCAGACTGTCTCAGATCAAGGAAAAGATGGCCAGA
GAGAAGCTGGAAGAAATAGATTGGGTGACATTTGGGGTTATATTGAAGAA
GGTTACGCCACAGAGTGTGAATAGTGGA AAAACCTTCAGCATATGGAAC
TGAATGATCTTCGTGACCTGACACAATGTGTGCTTGTCTTATTTGGA
GAAGTTCACAAAGCGCTCTGGAAGACGGAGCAGGGGACTGTCGTAGGGAT
CCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTCAGAGGAGGTGTGTT
TATCTATCGATCATCCTCAGAAGGTCTTAATTATGGGTGAAGCTCTTGAC
CTGGGAACCTGTAAAGCCAAGAAGAATGGAGAGCCGTGCACGCAGAC
TGTGAATTTGCGTGACTGTGAGT
>181.1
GGCGGCCGAGGTA CT CACAGTCACGCTCCTCTGAACCATCCTTGGGCTTC
ATGGGGTTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCA
GAGCGCTTTGTGAACCTTCTCAAATAAGAACAAAGGACACACATTGTGTCA
GGTCACGAAGATCATT CAGTTTCCATATGCTGAAGGTTTTTCCACTATTC
ACACTCTGTGGCGTAACCTTCTTCAATATAACCCCAAATGTCACCCAATC
TATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGATCTGAGACAGTC
TGATCAGTTT
>182.1
GCGGCCGAGGTACATGGATACGTTCTTCTG GGGGCGGTCTCCAGTCCT
TTCTCATGAGGGAGCACACTCCTCTGCCTCATTGCAGTGGCCTCAGGGAT
ATGGAATTAAGATCCACCTGGTGTGATGAATAAACCAGACTCTCAGCAA
CGCAGGAAAAAAAAACAAAACTGGCTGGCGATCTGGAGTAAAGGATCCTC
ACATCCACGTGAACCAGGAACTCTGTGCCCAAATCGACGAAAAAAAAAAC
ACTGGGAGAGCCGAACTAAAAGTCTTTTAGCACGGGT
>183.1
GTGGCGGCCGAGGTACGCGGGGAGCGGAAAGGGAGACTGTGGGGAACTAG
GAGCAACAGCAGGCATGGACCAAAGCAGTGAAGGATGTATGAAAAAGATT
AGCAGTGTGAATCTTGACAACTTATAAATGACTTCTCAGATAGAAAA
GAAATGGTAGAAACCAATGGAAAGAACAATATACTGGATATTCAGTTGG
AAAAAGTAATTGCCTATTA AAAAGTAATGCAAGCAAAGGAGGTCTCCATT
AAAGAAGAATGTGCTACTTTCATAATATAATAAAGGGCTACAACAGAC
CATTGAATATCAACAGAATTTGAAAGGTGAAATGAACAACTAAAAATAA
GTGCTGATCTTATAAAAAGAGAAGTTAAAGTCTCATGAACAGGAATATAAG
ATAATATTGCCAACTTGTAAGTGAAATGAAATCAAAGAGGAGGGATA
TAAGAAAGAAATAAGCAAAC TTTATCAGGACATGCAGAGAAAAGTTGAAT

Table 3

TAAATGAAGAAAAGCACAAAGAACTAATAGAGAAAAAGGAGAT
>184.1
GGCGGCCGAGGTACATGGATACGTTCTCTTCTGGGGGCGGTCTCCAGTCC
TTTCTCATGAGGGAGCACACTCCTCTGCCTCATTGCAGTGGCCTCAGGGA
TATGGAATTAAGATCCACCTGGTGTGATGAATAAACCAGACTCTCAGCA
ACGCAGGAAAAAACAACAACTGGCTGGCGATCTGGAGTAAAGGATCCT
CACATCCACGTGAACCAGGAACTCTGTGCCCAAATCGACGAAAAA
CACTGGGAGAGCCGAACATAAAGTCTTTAGCACGGGT
>185.1
GTACGCGGGGGTGTCCGGCGATGGGCACGGGCATTTCTTCGTTTATAGCT
GTCTGTTTGCATTCTGATTGGGAACACTGGGATCATTTTCATCATGCCGA
CAGTGGTGGTAATGGATGTATCCCTTTCCATGACCCGACCTGTGTCTATT
GAGGGGTCCGAGGAATACCAGCGAAGCACTAAGTAATATGGATGATTATG
ACAAAACCTGCTTGGAGTCTGCATTAGTTGGTGTTCGAATATCGTTTCA
CAAGAATGGGGTGGTGCAATTCCTTGCCAGGTTGTCTGTTGACAGACGG
CTGTCTTGGCATTGGTAGAGGGTCACTGGAACA
>186.1
CGCGGTGGCGGCCGAGGTACTCACAGTCACGCAAATTCACAGTCTGCGTG
CACGGCTCTCCATTCTTCTTGGCTTTACAGGTTCCCAGGTCAAGAGC
TTCACCCATAATTAAGACCTTCTGAGGATGATCGATAGATAAACACACCT
CCTCTGAACCATCCTTGGGCTTCATGGGGTGGCATTGAGGATCCCTACG
ACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAACCTCTCCAAATAA
GAACAAGGACACACATTGTGTCAAGTCAAGATCATTAGTTTCCATA
TGCTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTCAAT
ATAACCCCAAATGTCACCAATCTATTTCTTCCAGCTTCTCTTGCCAT
CTTTCTTCTGATCTGAGACAGTCTGATCAGTT
>187.1
GGCGGCCGCCCGGGCAGGTACCAGAGATTCCAGAGAGTGGTCTTTGGAAT
TTCCCAACTCCTTTGCTTCAGTGCCCTGATCTCTGAACTAACAAACCAGA
AAGAAGTGGCAGCATGGACTTATCATTACAGCACAAAAGCATACTCATGG
AATATTTCCCGTAAATACTGCCAAATCGCTACACAGACTTAGTGGCCATC
CAGAATAAAAATGAAATTGATTACCTCAATAAGGTCTACCCCTACTACAG
CTCCTACTACTGGATTGGGATCCGAAAGAACAATAAGACATGGACATGGG
TGGGAACCAAAAAGGCTCTCACCAACGAGGCTGAGAACTGGGCTGATAAT
GAACCTAACAAACAAAAGGAACAACGAGGACTGCGTGGAGATATACATCAA
GAGTCCGTACGCCCTGGCAAGTGAATGATGAGCACTGCTTGAAGAAAA
AGCACGCATTGTGTTACAC
>188.1
ACTTTTTTTTTTTTTTTTTTTGTAACACAGGTGTCAGATGCATCACA
AAAGCAGAAGTGCCCTTTCAGCTCTTCTGTGCGCATTCCTTGTCAATTT
CATGCTGCCTACAGCAACAGCATAATACTGCAACAGCCATGATGTCA
>188.2
TCTCTGTGATTGACAGAGAGGGACACGTCGTAGTCAAGAGGTGTGCTCCT
CAGAAGAATATCAGAACTCAACTCGCTGTGCTCCAAGGGGCTCAATCCC
TTGATTTGAGGGGAGGGATG
>188.3
AGCGGATGGGAAGTGATACTAGGTATGTAAAGGATGGTCAGTTACCTCTA
AATGTAAGTTAGACCAGGACAGCCAG
>189.1
GAAGGAAAGCAGCTGCAAACCTCCCATCTGCAGTGTTTGTCTCGGC
TCCGGCCATCACTGCCACGATTACCCCTGGATGAATTCCTCAGTGGAAAT
ATCAACAAGACTCAGCCCACCTGCACCCAGGTGATTAAAAAGCTTTATTG
CTCACACAAAGCCTGTTGGTGGTCTTTCACATGGACGCGCGGACATT
TGGTGCCCTGACTTGGATCAGGGGACCTCCCTTGGGAGATCAATCCCCTG
TCCTCCTGCTCTTTGCTCCGTGAGAAAGATCCACCTACGACCTCTGGTCC
TCAGACCAACCAGCCCAAGGAACATCTACCAATTTTAAATCAAGAATAT

Table 3

TCTGTGAAAAAGACTAAGATATCAGAGAAATTATTAGTGCACATTATTAG
AAGAGAGCTTCAGATGAAAATAAAGATCAAGAAAAGACTCTTGCTTTGAG
AAGACACAAAGAAATCACATCATCTTATTGGGATTACTGGC
>190.1
CATCGCCGTCCCATTGCTCACAGGGACTGGGAAGGCGATGCCTGGCGGGA
GCTGCTGGTGGAGAGACTCGGGATGACTCCTGCTCAGATTCAAGCCTTGC
TCAGGAAAGGGGAAAAGTTTGGTCGAGGAGTGATAGCGGGACTCGTTGAC
ATTGGGGAAACTTTGCAATGCCCCGAAGACTTAACTCCCGATGAGGTTGT
GGAAGTAGAAAATCAAGCTGTACCCTGATGCTACAGACGAGGACATCACC
TCACACATGGAAGCGAGGAGTTGAATGGTGCATACAAGGCCATCCCCGT
TGCCCAGGACCTGAACGCGCCTTCTGATTGGGACAGCCGTGGGAAGGACA
GTTATGAAACGAGTCAGCTGGATGACCAGAGTGCTGAAACCCACAGCCAC
AAGCAGTCCAGATTATATAAGCGGAAAGCCAATGATGAGAGCAATGAGCA
TTCCGATGTGATTGATAGTCAGGAACTT
>191.1
GTACTCCCTGGAAAGTCCAGCTGAGAAAGCGATCCTGCCCTCTGCTCCTC
CCAGGGTTACCCTCCTGTAAGTCTTCTGCTTAGTGTTGAGAATTGGGGGA
TGCTGGGACTGGGGCAAGGACTTGTAGGCAACACCCCATAGCCTGCTCATG
CCTGTTGGGTTGCCTATGGATCATTCCCTGCTGGGCTCACTACCGGCTT
CGTATAAGGTCCTTTTTGAGGTTTATTATTCCTTGTCCATATACTTGAT
GCTCTTCATTGGCTTGTCTGGGACCTGCCTTAGGTTCTCCGAGGCATAAA
AGGGCCGGACAGCCCCGAGTTGGGGGAACTCTGAAGCTTCTTGGTGGCT
GGAACCTTGGTCATCTTAAAAATCCTTCAGGTTTTAGCCTGTGCCCCAA
GACAAGGATTTTTCCAGAATCTTCTACTTCAGTAGTTACTGGTATGAGAA
GTTTCGGCAACTTCTCCCTGATCCCCAAGTCCCAATTACA
>192.1
TGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTC
TGGCTTGAAATACAGCTGAAATAACTGAATTTTCTACTTGAAACGTGTGT
GCCTCTCCACTGAGGGGCCAAGGCCCTGGAAATGTAAAGGGCCAATCTTT
GTTACAGAGGGGTTTCATTGCAGTGAAGGGCGGGTTCTGCAAAGACAAACA
GGTCTCACAGATAGTTGCCCCCGCT
>193.1
TTTTCTCTTCCTTCGCTAACGCCTCCCGGCTCTCGTCAGCCTCCCGCCGG
C
>194.1
CGGCCGCAGCGGCAGCTACAACAACCGCGTCTCGCTCTCCGCTCAATTTCCA
AGAGCCAGCTTTGAAGCCAAGTGCCCCCGGTACCT
>195.1
CCGCGGTGGCGGCCGGTGTGCTGTGCTCAGCTGCCTTCCAAAGGAGGAAC
AGATCGGCAAGTGCTCGACGCGTGGCCGAAAATGCTGCCGAAGAAAGAAA
TAAAAACCCTGAAACATGACGAGAGTGTTGTAAGTGTGGAAATGCCTTC
TTAAAGTTTATAAAAGTAAATCAAATACATTTTTTTTTTCAAAAAAAAAA
AAAAAAAAAAAAAGT
>196.1
GGCGGCCGAGGTACTTTGAGCTCATAAGCTGGTATAAAATATCAAACATT
TTGACTGTTTAAACAACCTCAAGATATGTTTTGCAAAATTACAAAACATTA
TACAGGTGACTTAATTAATATCTACTCCAATTATACACAACACATCATGC
TGAAGATTTAGATTTATTTGAAAACACTTAGTCTAATTTATATTAGTGCA
GAAAAATCACATTCAATAAACCACAATTGTAGAAGAGACAGATAAGTGTG
TTTGTACATTTTACACAAATATAATTTGATATTTAATTAAGGGATGAT
GAATCACAAATCACCATGGTCCGCCCTGAGCGCCAACCCCTACCCCGTCG
CCTCACTCGGATCCCCCGCGT
>197.1
GCAGGGCGGTATGCCGCCAAACGCTTCCGCAAAGCTCAGTGTCCCATTTGT
GGAGCGCCTCACTAACTCCATGATGATGCA
>198.1

Table 3

CTTGCTCAGCCTTTCCAGGCCCTCTGATGAGCTCTCTAATCAGCAGGAC
CAAGGTGTGAATGTGGGAATGAACATGGATCCATCCCATTGGATGGAGAA
GAAAGGTGGACAGCCTGTTCTCTCATGTCAGCCTAGGGCTGGGAACA
GTTTGTGAGGACTTATCTGTTGT
>199.1
GTACTTGCTCAGCCTTTCCAGGCCCTCTGATGAGCTCTCTAATCAGCAG
GACCAAGGTGTGAAGTGGGAATGAACATGGATCCATCCCATTGGATGGAG
AAGAAAGGTGGACAGCCTGTTCTCTCATGTCAGCCTAGGGCTGGGAA
CAGTTTGTGAGGACTTATCTGTTGT
>200.1
AAGATGGCCAGAGAGAAGCTGGAAGAAATAGATTGGGTGACATTTGGGGT
TATATTGAAGAAGGTTACGCCACAGAGTGTGAATAGTGGAAAAACCTTCA
GCATATGGAACTGAATGATCTTCGTGACCTGACACAATGTGTGTCCTTG
TCTTATTTGGAGAAGTTCACAAAGCGCTCTGGAAGACGGAGCAGGGGAC
TGTCGTAGGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTCAG
AGGAGCGTGACTGTGAGT
>201.1
GTTCAAGCTCAACAAGTCAGAACTAAAGGAGCTGCTGACCCGGGAGCTGC
CCAGCTTCTTGGGGAAGGACAGATGAAGCTGCTTTCCA
>201.2
CTGATGAGCAACTTGGACAGCAACAGGGACAACGAAGGTGGACTTTCCAA
GAAGTACCTGCCCGGGCGGCCGCTCTAGAAGT
>202.1
TTGGGGCACAGAGAGGGTTTCAGAGGATCCTTGTGAAACACTAGTTAAAA
GATGACGAGTGGGGAGAAGTGCAGGAGAAAGAAGGAAATTAGTCTGACTGG
CTTTCTGTCTGCACCATGATTCAATGGAGACTGGCGGGAGGAAATGGA
AGACTAGGGTTGGAGATGGGATGGGTGGGGCAAGGGATGGAAAGGAAAAG
GCAGACAATAATGCGTTCCATTATAACAAGTAATATATATCAAAGACT
TAAAGGAGATTAAGACCAATCAGAATAATTTGGCAACTTTAATTCTTAG
GAAGATCAAAGTTCCTCCAAACCTAATTTGATGTTTTATTACTAAAAGC
AAAGACCAGTATGGT
>203.1
TCCTTTCTCGTTCCCCGGCCATCTTAGCGGCTGCTGTTGGTTGGGGGCCG
TCCCGCTCCTAAGGCAGGAAGATGGTGGCCGCAAGAAGACGAAAAAGTC
GCTGGAGTCGATCAACTCTAGGCTCCAACCTCGTTATGAAAAGTGGGAAGT
ACCT
>204.1
CGCGGTGGCGGCCGAAAACCTGATCAGACTGTCTCAGATCAAGGAAAAGAT
GGCCAGAGAGAAGCTGGAAGAAATAGATTGGGTGACATTTGGGGTTATAT
TGAAGAAGGTTACGCCACAGAGTGTGAATAGTGGAAAAACCTTCAGCATA
TGGAACCTGAATGATCTTCGTGACCTGACACAATGTGTGTCCTTGTTCTT
ATTTGGAGAAGTTCACAAAGCGCTCTGGAAGACGGAGCAGGGGACTGTCTG
TAGGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTCAGAGGAG
GTGTGTTTATCTATCGATCATCCTCAGAAGGTCTTAATTATGGGTGAAGC
TCTTGACCTGGGAACCTGTAAAGCCAAGAAGAAGATGGAGAGCCGTGCA
CGCAGACTGTGAATTTGCGTGACTGTGAGT
>205.1
CCGGGTGGCGGCCGAAAACCTGATCAGACTGTCTCAGATCAAGGAAAAGAT
GGCCAGAGAGAAGCTGGAAGAAATAGATTGGGTGACATTTGGGGTTATAT
TGAAGAAGGTTACGCCACAGAGTGTGAATAGTGGAAAAACCTTCAGCATA
TGGAACCTGAATGATCTTCGTGACCTGACACAATGTGTGTCCTTGTTCTT
ATTTGGAGAAGTTCACAAAGCGCTCTGGAAGACGGAGCAGGGGACTGTCTG
TAGGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTCAGAGGAG
GTGTGTTTATCTATCGATCATCCTCAGAAGGTCTTAATTATGGGTGAAGC
TCTTGACCTGGGAACCTGTAAAGCCAAGAAGAAGATGGAGAGCCGTGCA
CGCAGACTGTGAATTTGCGTGACTGTGAGT

Table 3

>206.1

CGCGGTGGCGGCCGAGGTACTCACAGTCACGCTCCTCTGAACCATCCTTG
GGCTTCATGGGGTTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGT
CTTCCAGAGCGCTTTGTGAACCTCTCCAAATAAGAACAAGGACACACATT
GTGTCAGGTCACGAAGATCATTAGTTTCCATATGCTGAAGGTTTTTCCA
CTATTCACACTCTGTGGCGTAACCTTCTTCAATATAACCCCAAATGTCAC
CCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGATCTGAG
ACAGTCTGATCAGTTT

>207.1

CGCGGTGGCGGCCGCCGCGGAGGTACATGGTTCTTCTAGAAAGTGGTTC
TTCTTAATGTGTTTCTTTTACCCCTTTTCTTCTTCTTCTCACAGATG
TTTCTTCTTCTTCTGCCACTTTTTCTTCTTCTTCTTCAACTGAATAG
GGTAAGTGTAAGGCACAACAAATTAACACTGTATCAGATCTCATTCCCT
CCAAAACGTTTGAGTCCTAGTTTTTTCTGTCTTCTCATCAACTACCC
AATGTTTGTTTTGTTTTATTTTATAATTGGAAGGTTCTCCAAGGCCTACC
ACTAACTTTAACGAATGATATAGATAGAGCTCAGAGCAATCTTCTCAGTA
TCATGAAGTCATGTATAAAATCAGGATTAACAAAGGTCATCTGATCT
CCAATCATTATTGGGAAGAAAGTCAATTATATTAGAAATGGTTAAGAGCT
TGCACCTCTGAAGTCAGACGGCCTGGGTTAATCTACCTGCTGCAACCCTG
AAAAATTGTATTTACCCTTGGTGAAGCTCCCTA

>208.1

ACATGGTTCTTCTAGAAAGTGGTTCTTCTTAATGTGTTTCTTTTACC
CCTTTTCTTCTTCTTCTTCTCACAGATGTTTCTTCTTCTGCTGCCACTTTT
CTTCTTCTTCTTCTTCAACTGAATAGGGTAAGTGTAAGGCACAACAAAT
TAACACTGTATCAGATCTCATTCTTCCAAAACGTTTGAGTCCTAGTTT
TTTTCTGTCTTCTCATCAACTACCCAATGTTTGTTTTGTTTTATTTATA
ATTGGAAGGTTCTCCAAGGCCTACCACTAATTTAACGAATGATATAGA
TAGAGCTCAGAGCAATCTTCTCAGATCATGAAGTCATGTATAAAATCA
GGATTAACAAAGGTCATCTGATCTCCAATCATTATTGGGAAGAAAGTC
AATTATATTAGAAATGGTTAAGAGCTTGCACCTCTGAAGTCAGACGGCCTG
GGTTTAATCTACCTGCTGCAACCCTGAAAAATTGTATTTACCCTTGGTGA
AGCTTCTATCTATAAACTTAAGAATGTCTTATCTTACTGGACTGTTAC
TGATTTAAAAAGAT

>209.1

CGCGGCGGCGGACGAGGTACACGACATAGGCACATGTGCAAACACAAAGA
AGGTGGGCTGCTGCTTCTTCTATCTGCCCCCTAGACCAGGCTCCTTTGCT
TCACGTAAGATGGAGACTGTCCATTCTCTGAAGTTGCTGGAAGGACAT
TTCCAGGAAGAAACAATTCCTCACTGCCTATAAACTGTAGTCACATGTG
GGATAGTCAATAGAACATGAGAATCAGAACAACTCTGGGCAAATGGGTATG
GCAAGAATGGGAACACCACAACAGGACAGATGCCAACTCTCATTATGCC
AGGCCTTTTGGCATATGGGTGCCTTCTGTGCTTCTTTCCA

>210.1

GGCGGCCGAGGTACTCACAGTCACGCTCCTCTGAACCATCCTTGGGCTTC
ATGGGGTTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCA
GAGCGCGGTGTGAACCTTCTCCAAATAAGAACAAGGACACACATTGTGTCA
GGTCACGAAGATCATTAGTTTCCATATGCTGAAGGTTTTTCCACTATTC
ACACTCTGTGGCGTAACCTTCTTCAATATAACCCCAAATGTCACCCAATC
TATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGATCTGAGACAGTC
TGATCAGTTT

>211.1

CTCACCGCGGTGGCGGCCGAGGTACTCACAGTCACGCTCCTCTGAACCAT
CCTTGGGCTTCATGGGGTTGGCATTGAGGATCCCTACGACAGTCCCCTGC
TCCGTCTTCCAGAGCGCGGTGTGAACCTTCTCCAAATAAGAACAAGGACAC
ACATTGTGCAGGTACGAAGATCATTAGTTTCCATATGCTGAAGGTTT
TTCCACTATTCACACTCTGTGGCGTAACCTTCTTCAATATAACCCCAAAT
GTCACCCAATCTATTTCTTCCAGCTTCTCTCTGGCCCCATCTT

Table 3

>212.1

TGGATGACATTGGCGGTGGTCCTTGATACCAGATAAGCCCTCAGTGTGAA
GCAGCTCTTATTTTCTTGTCTTGAGATTGCTCTGGAATGGAAATTAGG
CTTTTTGAAGGTGTGACCCTTTTGTTCATTTCTTCAGCAGTTACTTTT
TAATTTTAAATGTTTGACACACAGTCTCTGATAAATGATCATTACCAA
TCACCGATTACTCTCCTTGCTCTGTAAAGGTGACACTGTCCCTTTGAGA
ATCTGGCGACAGCTATGTATCCCATACCACACACCCCAAAAAAAAAA

>213.1

GGCGGCCGTTTGAGAAGCCAGCGCTCACCCACCCGGGTCTCTGTGCATT
GACCTTTGGGTGCTGACTTGGAGAAAAGCACAAACACGACCAGTCCCCC
GCGTACCTCGG

>214.1

TTTTAACACAATATACCTAACATATTTTATTTCAATATCTAACCAGTAT
AAAAATTTACTTGTTTTGCCCTCTAGAGATAGTAAGCTCCTTAAGTAAAC
AGAAGTAATACCTGATTAATTAGAATCCCAACCCTCATCAAGTGTGTGC
TTATATAGAAGAAACCCAGTAAATGTTTGTGATTGAAAGATATTAATAC
TCTTGCTTGATGAGAGTGAGGAAAAAGGTATTAGTATTGGCTTTTAC

>215.1

GCGGCCGAGGTACTTTGGAGTCCCCTGGTTTCTAAGAATTGCCGTTGACT
CTTTCTTTGGCTTCTGCTGGCAGCGTAACCAGACTCCCTACAACCTGCACT
CTTTGTCTTTGTCATGGAAGCCGCGAGCGTAGAGGTTCCGCGTGCTCTGC
CGGACTTGAGCAGGTCACTGGGTCTTTACACTTGTGAATTCGAAGCTTG
CCAGATGTATCCTCAATGCATTGCCACTTCTGCCCGGTTGTTACAGGC
TGTCTGGTACGAGATCTCCGACCAGTCTGGGGGCGCTGGCGGCCTGCGCA
GCCACCTCAAGATCACAGATTCTGCTGGCCATATTCTCTACTCCAAAGAG
GATGCAACCAAGGGGAAATTTGCCTTTACCACTGAAGATTATGACATGTT
TGAAGTGTGTTTTGAGAGCAAGGGAACAGGGCGGATACCTGACCAACTCG
TGATCCTAGACATGAAGCATGGAGTGGAGGCGAAAAATTACGAAGAGATT
GCAAAAGTTGAGAAGCTCAAACCATTAGAGGTAGAGCTGCGACGCCTAGA
AGACCTTTCAGAATCTATTGTTAATGATCTTGCCTACATGAAGAAGAGAG
AAGAGGAGAT

>216.1

CCACCGGGTGGCGGCCGAGGTACTTTGGAGTCCCCTGGTTTCTAAGAATT
GCCGTTGACTCTTTCTTTGGCTTCTGCTGGCAGCGTAACCAGACTCCCTA
CAACTGCACTCTTTGTCTTTGTCATGGAAGCCGCGAGCGTAGAGGTTCCG
CGTGCTCTGCCGACTGTGAGCAGGTCACTGGGTCTTTACACTTGTGAA
TTCGAAGCTTGCCAGATGTATCCTCAATGCATTGCCACTTCTGCCCGGT
TGTTACAGGCTGTCTGGTACGAGATCTCCGACCAGTCTGGGGGCGCTGG
CGGCCTGCGCAGCCACCTCAAGATCACAGATTCTGCTGGCCATATTCTCT
ACTCCAAAGAGGATGCAACCAAGGGGAAATTTGCCTTTACCACTGAAGAT
TATGACATGTTTGAAGTGTGTTTGAAGCAAGGGAACAGGGCGGATACC
TGACCACTCGTGATCCTAGACATGAACATGGAGTGGAGGCGAAAAATTAC
GA

>217.1

GCGGCCGAGGTACTATCAAAACAACATGATACAATTTAAATGTGTCATAGC
AACTACTAGTGGTCACCTGAAATCCATTTTCCCCTCCTTACAGTAAGAG
TTTTAGCTGAATGAGTGGCCACTCATAGAGAGATTGCATTTCTGGCTTCC
CTTGACCCATAGGTAGCCATGGGACAAAGTTCTAACCAGGGGGGGTCC
AATCTTTTGGCTTCCCTGGGACACACTGGAAGAAGAAGAATTGTCTGGG
CCACACATAAAATACACTGGCATCAAGGATAGCTGATGAGCAAAAAAAAA
AAAAAAAAAAAAAAGT

>218.1

CGCGGTGGCGGCCGAGGTACCATCCTGTTCCACAGAGCCATTGCCTATTC
CTAAATTGAATCCGACTGGGCGTGCCCTCCTCGGAACACAACAGTAGAC
CTTAATAGTGGAACATCGATGTGCCTCCCAACATGACAAGCTGGGCCAG
CTTTCATAATGGTGTGGCTGCTGGCCTGAAGATAGCTCCTGCCTCCAGA

Table 3

TCGACTCAGCTTGGATTGTTTACAATAAGCCCAAGCATGCTGAGTTGGCC
AATGAGTATGCTGGCTTTCTCATGGCTCTGGGTTTGAATGGGCACCTTAC
CAAGCTGGCGACTCTCAATATCCATGACTACTTGACCAAGGGCCATGAAA
TGACAAGCATTGGACTGCTACTTGGTGTCTGCTGCAAACTAGGCACC
ATGGATATGTCTATTACTCGGCTTCTTAGCATTACATTCTGCTCTCTT
ACCCCAACGTCCACAGAGCTGGATGTTCTCACAATGTCCAAGTGGCTG
CAGTGGTTGGCATTGGCCTTGCATATCAAGGGACAGCTCACAGACATACT
>219.1
AACGCGCGACTCCACCGCCATCTTCCTCTACGGCCTGCGAGACGCTCCC
CCGCGTACCTCGGCCGCTCTAGAATAAGTGGGATCCCCGGGCT
>220.1
GCGGTGGCGGCCGAGGTACCATGATATCATGTATCCTGCTTGGACATTTT
GGGAAGGGGGACCTGCTGTTTGGCCAATTTATCCTACAGGTCTTGGACGG
TGGGACCTCTTCAGAGAAGATCTGGTAAGGTCAGCAGCACAGTGGCCATG
GAAAAAGAAAACTCTACAGCATATTTCCGAGGATCAAGGACAAGTCCAG
AACGAGATCCTCTATTCTTCTGTCTCGGAAAAACCCAACTTGTGAT
GCAGAATACACCAAAAACCAGGCCTGGAAATCTATGAAAGATACCTTAGG
AAAGCCAGCTGCTAAGGATGTCCATCTTGTGGATCACTGCAAATACAAGT
ATCTGTTTAATTTTCGAGGCGTAGCTGCAAGTTTCCGGTTTAAACACCTC
TTCCTGTGTGGCTCACTTGTTCATGTTGGTGATGAGTGGCTAGAATT
CTTCTATCCACAGCTGAAGCCATGGGTTCACTATATCCCAATCAAAACAG
ATCTCTCAATGTCCAAGAGCTGTTACAATTTGTAAAAGCAAATGATGAT
GT
>221.1
CCGGGCAGGTACAGCAACAAGAATCAGATGCTCTTTAGAGATCCTCCATT
TCATTACTTAACATTCTTCAATGTGGTTCCAGCCACGCATAGTCATATA
GATACTACATATTCAAAGATAACTTACTGAAGCTTGTTCACAGAACCAAG
CTTTCTCCTGATAGCTCTTCTCCCTACCCCGCACTTTTGGAAGTATTA
CCCCAAATGCTCTTCAGGATTTAAATAACAATTTTAAAAAGACACTTAA
CACCACAAAATGGAATTTGCTGGCATGACGCGAACAATACGGTTACTCCA
GATGCTGTATTCAAATGTATGGGTCCGTTGAAAAATAGATATAACCAT
TTTTCTCATAGACAGCATCTACTTTATCACCATTCTGGGAAGTCTTCT
TCTATTAGTCTCGGATAGTCTTATCCATAATATGGCTAGTATCATCATA
TCTCCAGACCTGGTTTCTGAGAACAGGAGAGTCTTGCTGTATCCTCAA
AGTGAACAGCTGCACTTATCTTCTTAACCTCTTTTGAAGACCCAGTTCA
GATATTTTTTGGGATAACCTTCCAAATGTCATAACCAT
>222.1
ACGCGGGGAGTGTAAGTATGGCCGGCCTGCGGAACGAAAGTGAACAGGAG
CCGCTCTTAGGCGACACACCTGGAAGCAGAGAAATGGGACATTTTAGAGAC
TGAAGAGCATTATAAGAGCCGATGGAGATCTATTAGGATTTTATATCTTA
CTATGTTTCTCAGCAGTGTAAGGTTTTCTGTAGTGATGATGTCCATATGG
CCATATCTCCAAAAGATTGATCCGACAGCTGATACAAGTTTTTGGGCTG
GGTTATTGCTTCATATAGTCTTGGCCAAATGGTAGCTTCACCTATATTG
GTTTATGGTCTAATTATAGACCAAGAAAAGAGCCTCTTATTGTCTCCATC
TTGATTTCCGTGGCAGCCAACCTGCCTCTATGCATATCTTCACATCCCAGC
TTCTCATAATAAATACTACATGCTGGTTGCTCGTGGATTGTTGGGAATTG
GAGCAGTTTTTC
>223.1
GCGGCCGGAGTGATGCCATCTGCAGTTTTGTGATCTGCAATGATTCTTCC
CTTCGAGGTCAGCCATTATCTTTAATCCTGACTTTTTTGTGGAGAACT
CCGACATGAGAAACCTGAGATTTTCACTGAGTTGGTGGTCAGCAATATCA
CAAGGCTCATCGATTTACCTGGAACCTGAGTTGGCTCAGCTGATGGGGGAA
GTGGACCTTAAGTTGCCGTGGCGGGCTGGCCAGCATCAGGATTCTTCG
GTCTCTCATGTCTCTCAAGCGAAAGGAAAAAGGAGTGATATTTGGGTCCC
CACTGACGGAGGAAGGCATTGCCAGATATACCAACTGATTGAGTATCTA
CACAAAACTTGCGAGTAGAGGGTTTGTAGAGT

Table 3

>224.1

GGCCGCCCGGGCAGGTA CTCCCTGTAAAGGGGAATTTCCATGCCGTCTAC
AGGGATGACCTGAAGAAATTGCTAGAGACCGAGTGTCTCAGTATATCAG
GAAAAAGGGTGCAGACGTCTGGTTCAAAGAGTTGGATATCAACACTGATG
GTGCAGTTAACTTCCAGGAGTTCCTCATTCTGGTGATAAAGATGGGCGTG
GCAGCCCACAAAAAAGCCATGAAGAAAGCCACAAAGAGTAGCTGAGTTA
CTGGGCCCAGAGGCTGGGCCCTGGACATGTACAGACTCTCATTTTATGA
TGTATCCTACTGCATCAGGACATTTGTGTCAATGTCAGGTGACGAGGGGA
AATGAAAGTGATGAGACGATGAGAGGAGTGAAATACCAAGGACGCCATAC
TAGGAAACCCAGGTCTATTTGTTATCAGAGTAAGGATCAAGCCAGATAGC
CTGTTATGTAATTTCTCCGATAAAAGATTTTGAAAGCAGGTGCTGTGGGC
ATCTGTATGGGGAATCGCACTCATAGAATTTATTTTCATTTGTAAATATTT
GGTATCAGGCCAAGCAAGGGAAAGAAGCTTTACTGTATTACCATCTTT

>225.1

CGCTCCCCGCGGTGGCGGCCGAGGTA CTACAGTCACGCAAATTCACAGT
CTGCGTGACGGCTCTCCATTCTTCTTGGCTTTACAGGTTCCAGGT
CAAGAGCTTCACCCATAATTAAGACCTTCTGAGGATGATCGATAGATAAA
CACACCTCCTCTGAACCATCCTTGGGCTTCATGGGGTTGGCATTGAGGAT
CCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAACCTCTC
CAAATAAGAACAAAGGACACACATTGTGTCAGGTCACGAAGATCATTGAGT
TTCCATATGCTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTT
CTTCAATATAACCCCAAATGTCACCCAATCTATTTCTCCAGCTTCTCTC
TGCCCATCTTTTCTTGATCTGAGACAGTCTGATCAGTTT

>226.1

ACGCGGGATGGATAGCCGCTTGCAGGAGATCCGGGAGCGGCAGAAAGTTAC
GGCGACAGCTCCTCGCGCAGCAGTTGGGAGCTGAAAGTGCCGACAGCATT
GGTGCCGTGTTAAATAGCAAAGATGAGCAGAGAGAAATTGCTGAAACAAG
AGAAACTTGCAGGGCTTCTATGATACCTCTGCTCCAAATGCAAAACGTA
AGTATCTGGATGAAGGAGAGACAGATGAGGACAAAATGGAAGAATATAAG
GATGAACTAGAAATGCAACAGGATGAAGCTTATCATCAATTCATTGTATA
AAAATAAGAGATTTTCTGAGAGAACTGATTTCAAATGCTTCTGATGCT
TTAGATAAGATAAGGCTAATATCACTGACTGATGAAAAATG

>227.1

ACGCAAAGTGATTACAGAGAACGCTGGGGCTCACAGGCGCTGTAGCAAACG
TGCAACTCTTGAGGAACACTTAAGACGCCACCATTGAGAACACAAAAAGC
TACAGAAGGTCCAGGCTACTGAAAAGCATCAAGACCAAGCTGTTACTAGC
TCTGCGCATCACAGAGGGGGGCATGGTGTCCACATGGGAAATTGTTAAA
ACAGAAATCAGAGGAGCCATCGGTGTCAATACCCTTCTACAAACTGCAT
TATTAAGAAGTTCAGGGAGTCTTGGGCACAGACCAAGCCAGGAGATGGAT
AAAATGTTAAAAAATCAAGCAACTTCTGCTACTTCTGAAAAGGATAATGA
TGATGACCAAAGTGACAAGGGT

>228.1

AGACTTGGCTGTTGGGAGGGGCGTGTCTTACACCTTAGGAAGAATCCTTA
GCTGTACTTTCTGTCTCTCCTGGAGCTCCCTCTACCCCCTAGCTGAGT
AGGCCAGGTTTTGGTGCAAAATCTCCACATTGGCAAAGTTCCTGCATAT
GCTGCGCAGTATGTGCCTTGAATAAAAAATCCTGAAGATTAGATGGTTCAG
GCTGCATCATCCCAAAGCAAAGAGCACCTCTTTGAAGCTCACCTGCCCGG
GCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTCAGTATGTAGCTTTAA
AACAGTTACATATAACATGGAACAGTATGACATGAAAAGAGAGAGGTTTA
TAGAGGGAG

>229.1

GGCGGCCGAGGTA CTACAGGATGATGGCTTTCTTCTCTGGGTACAG
GCAGGGCCATGGAGTTGGGGAGAGAATGTCTAAACCTCTGGGGGTATGAA
CGGGTAGATGAAATTTTGGGTGAAGACAAATCAACTGCAACGCATCAT
TCGGACAGGCCGTACCTGCCCGGGCGGTGAGCGGCCGCCGGGCAGGTA
CTT

Table 3

>229.2
TGTTACATTGGTCAGTTTTTACTTGTA AAAAGTATTATAGAAGAGTTTTA
TTGGAATGTTATTTTATTAAGCCATTTTCATGGGTTATTTTTTTTTAAAG
TTTAAGAAAGTTTTTACAACAGGCTGGGGGGGGGGGTTACACC

>230.1
GGCGGCCCGCCGGGCAGGTACGCGGGGGAGTCAGACCCAGTCAGGACACAG
CATGG

>231.1
TCCCCGCGGTGGCGGCCGAGGTACGACGTTTCCATCAGCTTGTCTGTTTC
ATTCCCTGATGTTACGAGCAATATGACCATCTTCTGTATTCTGGAACTG
ACAAGACGCGGCTTTTATCTTCACCTTTCTCTATAGAGCTTGAGGACCCT
CAGCCTCCCCCAGACCACATTCCTTGGATTACAGCTGT

>232.1
AAAAAGATATTTTAATATATTAGATCCACAAATATGAAATAAACTAAG
TAGAGCTGGTATTCATTTACACATAATTATCTTATACCGTTTGGAATAAG
AATTTGGGGCAGCTTAGCAAACCAAAGGCTCAAAAAGACGTCGAGATAT
TTAGTTCTTGTCTCCCTCTACAAATGTGAAGCACTTTTTATCCGGCATT
CCTAGGGGAGTTCTATTTTCAAATTTGCAAATCATTTCTGGTGCTAAGC
AATCTCAAAAAAACATTTACTAAAAACCAGAGGAAAAAATCTTATAAC
TTTGGGAG

>233.1
GCGGCCGCCCGGGCAGGACGCGGGGGCCAGTTCTCTTCGGGGACTAACTG
CAACGGAGAGACTCAAGATGATTCCCTTTTTACCCATGTTTTCTCTACTA
TTGCTGCTTATTGTTAACCCTATAAACGCCAACAATCATTATGACAAGAT
CTTGGCTCATAGTCGTATCAGGGGTCGGGACCAAGGCCCAAATGTCTGTG
CCCTTCAACAGATTTTGGGCACCAAAAAGAAATACTTCAGCACTTGTAAG
AACTGGTATAAAAAGTCCATCTGTGGACAGAAAACGACTGTGTTATATGA
ATGTTGCCCTGGTTATATGAGAATGGAAGGAATGAAAGGCTGCCAGCAG
TTTTGCCCATTGACCATGTTTATGGCACTCTGGGCATCGGGGGAGCCACC
ACAACGCAACGCTATTCTGACGCCTCAAACTGAGGGAGGAGATCGAGGG
AAAGG

>234.1
GGAGGCGGCCCGCCCGGGCAGGTACAGTATAGGTTGGTTTTGCCTGTTTTG
ACGC

>234.2
CACACATTTTACATATATATATGAACTGTATAATGTGTTTCGCTTCAGTG
TCTGGCTGCTTTTACTCAACATTGTGAAATTAATTCCTGTTATCGTATAT
GGGATTA AAAATTTGTTTGCCTAGTTTTTGCCTTCTATTGCTTCTGAATT
GGGGCAGCTTTGCCCTCAAGGGAAATTTAGCAATGTCTGGAGACATTTT
TTATTTTCATAATTTGGAGGGACATGGGGGAGGTGTGCTACAGAACTTAG
TAGGTAGAGGACAGGGTTAGTGCTGAACGTTCCACAGT

>235.1
CCTCCCAATTATCCCCAATTGAGAGATGAAAATTCTGACAAGCTCTCAA
CGTTAACTGACTTGCCCATAAATGACAGTTCCAAAGTTATAAGGCTAGAA
CTTGAATCCAGGTCTGTTAGAAATCTAGGTTTGAGAATCCATATTCTTTC
CACTTCCCGCGT

>236.1
CGGCCGCCCGGGCAGGTACCTACGCCACAGACAGCCAGAGGGAAAGCGAC
CCAGACAGCAGCCCTCCTCGACAGGCCACCCTGCAGCTCAGGCACCAA
GAAAACAGCCGACTGGCAGCCATTGCAGCTCCAACTGCAGAGGCAAG
GCCAATTTTAACTTTTCAATTTACAGTCGATTTTGAAGAGCTTCTACATA
TCGGTTATGTAAATTCATATATGTATTTTGAATCAGTTCTTATAAACA
GCTCGATTGATTTAGCTAAATTTATAGTCTAGGTAGTATGTTACATTT
GAACTTTTGTCTTAAGAAAAGTTGACTGTTGAGATATTTTCTACTGTAA
AGAAATATACTTTTCTATTAAGATCTGT

>237.1

Table 3

GCAGTTTTGTGATCTGCAATGATTCTTCCCTTCGAGGTCAGCCCATTATC
TTTAATCCTGACTTTTTTGTGGAGAACTCCGACATGAGAAACCTGAGAT
TTTCACTGAGTTGGTGGTCAGCAATATCACAAGGCTCATCGATTTACCTG
GAACTGAGTTGGCTCAGCTGATGGGGGAAGTGGACCTTAAGTTGCCTGGC
GGGGCTGGCCCAGCATCAGGATTCTTCCGGTCTCTCATGTCTCTCAAGCG
AAAGGAAAAAGGAGTGATTTTGGGTCCCACTGACGGAGGAAGGCATTG
CCCAGATATACCAACTGATTGAGTATCTACACAAAACTTGCGAGTAGAG
GGTTTGTAGAGT
>238.1
CACCGCGGTGGCGGCCGAGGTACGCGGGGATTGTGTGCAAAATCAGAGAG
GGGTGCAAGATCCTGATTTTTTCAGGAGTTCAAGCGACAATGGCAGCCAA
TACGGGAGTATGAGCTTCAACCCAGCACACCAGGGGCCAGTTATGGGCC
TGGAAGGCAAGAGCCAGAAATTCCCAATTGAGAATTGTGTTAGTGGGTA
AAACCGGAGCAGGAAAAAGTGCAACAGGAAACAGCATCCTTGGCCGAA
GTGTTTCATTCTGGCACTGCAGCAAAATCCATTACCAAGAAGTGTGAGAA
ACGCAGCAGCTCATGGAAGGAAACAGAACTTGTCTAGTTGACACACCAG
GCATTTTCGACACAGAGGTGCCCAATGCTGAAACGTCCAAGGAGA
>239.1
CGCGGTGGCGGCCGAGGTACCAGTTAAGTGAACAGCTCGTCTAGGTCTGC
TTTTGTAACACCCAAATACAATTAGCACTTCTCTGCTGGTATTCCCTGGG
CCGTCTTAATTATCTAGAGGCCAGGAGGCAAAGCCTAGCACGTAACAAAG
TATGTGCTTTGTAAGTCTGATTAAATTCAGTTTCTTAACTAGGCAGAGCA
GGTCATCAGTGTATCTAATTCACACTATTAATACACTGTCTTGCTGAAGA
GTCTGACCTGCCAGAACCCCGTTATGGCTAGCCAGGGAAGCAGTAAAC
TGCAAGCAGAGAAAAGGGCAGCTAAGATGAGGCTAGTGTGCTGAGT
CCCAGTTAGGTCTGTTACTGTTCTGTTCCAATAAATCCAGGATGACT
GTTACTCAGATTCAGTGCTATGTAGAAAATAGAATGCACAGCCAAAAACA
TAATTTGGGGATGACTGGCAGCACCTTTTTTCCCTTTCTT
>240.1
GGGGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTGGTATGACTATGAAG
GCTAGTGGTCTTTTTATTAGCTATCAAGTTCATTAAACAGACAAAAAATT
CAGTTCAATGGGGGCATTAAATAGGAAGAATTAACAATAGTTCATTAAT
CAATCTTTCAGCTGTTCTATTTTATCACAATAACTTTTCTATAATTGA
GAGATCCATGAGGAAGTCTTGAAAAGAACGTATGTTTCTTCAATTCCAT
AAACATTACGCCAAAATAATAAAGAGGCGCTATTACTTTGTTTGGGT
GAATGATATGCAGGCTAGGCTTGTGTAGT
>241.1
GGCGGCCGGTGTGCTGTGCTCAGCTGCCTTCCAAGGAGGAACAGATCGGC
AAGTGCTCGACGCGTGGCCGAAAATGCTGCCGAAGAAAGAAATAAAACC
CTGAAACATGACGAGAGTGTTGTAAAGTGTGGAAATGCCTTCTTAAAGTT
TATAAAGTAAATCAAATTACATTTTTTCCAAAAA
GT
>242.1
ACTGTCTCAGATCAAGGAAAAGATGGCCAGAGAGAAGCTGGAAGAAATAG
ATTGGGTGACATTTGGGGTTATATTGAAGAAGGTTACGCCACAGAGTGTG
AATAGTGGAACCTTCAGCATATGGAACTGAATGATCTTCGTGACCT
GACACAATGTGTGTCCTTGTTCTTATTTGGAGAAGTTCACAAAGCGCTCT
GGAAGACGGAGCAGGGGACTGTCGTAGGGATCCTCAATGCCAACCCCATG
AAGCCCAAGGATGGTTCAGAGGAGCGTGAAGTGTGAGT
>243.1
CCTTGGGCAGATGCTGTATTATGGGGATAAGCCACACACTTTTTGAACTG
GCCCGGTGAGGGGGGACATAACCATTTCTGTGCCACCCCATCAATCCCC
ACCTATTCTGAGTGTAGGCTCCTCCCCTGCTTGAGTAATGGCCACAGATC
TTGGCTCGGCACTCCTAAGCTGCATGTTGAATTCCTGGGACAACAAGACT
GGCTTGTGGTTCCATTCTCCAGATCCTTGGGTGGCTTCTGGGTGCACTA
GGAGATCTGAAATGCTCTCAGGCCACCAGGAAAGTACTGGAAGTAAAGTC

Table 3

TGACTCTAAAGAAGATGAAAATCTAGTAATTAATGAAGTAATAAATTCTC
CCAAAGGGGAAAAAACGCAAGGTAGAACATCAGACAGCTTGTGCTTGTAGT
TCTCAATGCACGCAAGGATCTG
>244.1
GTACCACCACAGTTGCTATCTCTTGAACATCTTTCATTAAAACATCACCG
TCTAGTTTGAGAATACTTTTAAGCCTGCTGGCCTCCTTTGGGGCATTCTT
TTTTCTCTTTTCAGCACGCATCTTTCTTTTCCACTTACTCCGTAAGCTTT
TAGCCATGTTTTACCTTGAGGGCCGAAGTTAACTTCAGCGGGAGTGAACG
ACAGGGGTGGGCTCCACTTTATCCAGTGCACCTCGGAAGCCGGAGGGCCCC
CACCAAAAAGAGCAAGGGGAACCCTCGCCCTCAACAAGGCCTGCATCTCC
GGACTGGAGCTCAAGTATAG
>245.1
ACAATTGCTTGAGTGAGTTCATGGTCCGTAGGAGGATGACCACTAGCCCCA
CCACCTTCCACTGTTTCTACAGTCTTGCCAGCAAGTTTGGAGTTAAGGC
TTCAAAATCCTGCAGCACACACATGCCGAAGGTATTGCCAGGATCTTGT
GGGTCTCGTTGTAGTAGCAGTAGCGAATGTTTGTGGCTGCTATGAAGAGT
TCAAAGGGGTGCTCCTGCTTATGTTCAAGTGTCCATTCTTTATTTTCTT
CTGCAGCTGTGCGATTCTTTCTTTTCG
>246.1
CGGGTGGCGGTCTGTTGGGATCAGCGTAGGTGAGCTGTGGCCTTTTGCGAG
GTGCTGCAGCCATAGCTACGTGCGTTCGCTACGAGGATTGAGCGTCTCCA
CCCATCTTCTGCGCGGGACCATCTACATAATGAATCCCAGTATGAAGCAG
CAACAAGAAGAAATCAAAGAGAATATAAAGAATAGTTCTGTCCCAAGAAG
AACTCTGAAGATGATTCAGCCTTCTGCATCTGGATCTCTTGTGGAAGAG
AAAATGAGCTGTCCGCAGGCTTGTCCAAAAGGAAACATCGGAATGACCAC
TTAACATCTACAACCTCCAGCCCTGGGGTTATTGTCCCAAAAAAAAAAAAA
AAAAAAAAAAGT
>247.1
CTTGCTTGACTAGATGAGCTGCTATAGTAGCCAATCCTGTTAGACTTGGA
CCATTGTTTGTCTGAAGAACGGGGATCTGTGCTCGCCCTGAGCACTGTA
TTTATTTCCCTTACTCAGTCCCAGGGACTTCTCCAGTAGCGACAACCTCTG
CGGCCGCCGCCATCTTC
>248.1
AGAGACGAGGAATTTAATTAGGGTTGTAACAAATGGTTAATTATAGTAAG
AAAAACCAATTGAATAATTTTCTAACTCACTTGGCAGGGGGGGTCTCGC
AGCCATAATGAACATCACATAATGAAGTTACTCTTTCCAGATCTATAAA
CAGGCTCATGTAACCTAAGTACTCAGTAAAAGGGTCCATAATCCAAAT
TTATATAACAAATGGGGCTTGTATAAAATCTCTTACATTTTAATACTTA
CTCTTAATAAATCATCTATTCTTCCCTCCTTCTTCTAAGGCAGAATTC
TACTGTTTTCTAGGGCAGATATTTTTCTATTGTGAGGTCCGACTGGGT
CTGTCTGGGCTGGATGGAGATCTGTTTTGGGAGCTGCAGGAATGCTCTG
TGTTGCCAGATCCCGTAAATGAGGGACTGT
>249.1
ACTGTCTCAGATCAAGGAAAAGATGGCCAGAGAGAAGCTGGAAGAAATAG
ATTGGGTGACATTTGGGGTTATATTGAAGAAGGTTACGCCACGGAGTGTG
AATAGTGGAACCTTCAGCATATGGAACTGAATGATCTTCGTGACCT
GACACAATGTGTCTCTTGTCTTATTTGGAGAAGTTCACAAAGCGCTCT
GGAAGACGGAGCAGGGGACTGTCGTAGGGATCCTCAATGCCAACCCCATG
AAGCCCAAGGATGGTTCAGAGGAGGTGTGTTTATCTATCGATCATCCTCA
GAAGGTCTTAATTATGGGTGAAGCTCTTGACCTGGGAACCTGTAAAGCCA
AGAAGAAGAATGGAGAGCCGTGCACGCAGACTGTGAATTTGCGTGACTGT
GAGT
>250.1
GGCGGCCGGAGTGATGCCATCTGCAGTTTTGTGATCTGCAATGATTCTTC
CCTTCGAGGTGAGCCCATTTATCTTTAATCCGGACTTTTTTGTGGAGAAAC
TCCGACATGAGAAACCTGAGATTTTCACTGAGTTGGTGGTCAGCAATATC

Table 3

ACAAGGCTCATCGATTACCTGGAAGTGGCTCAGCTGATGGGGGA
AGTGGACCTTAAGTTGCCTGGCGGGGCTGGCCCAGCATCAGGATTCTTCC
GGTCTCTCATGTCTCTCAAGCGAAAGGAAAAAGGAGTGATATTTGGGTCC
CCACTGACGGAGGAAGGCATTGCCAGATATACCAACTGATTGAGTATCT
ACACAAAAAATTGCGAGTAGAGGGTTTGTAGAGT
>251.1
TGGCGGCCGAGGTACCAGCACAAACCGGGCCAGCCTCCTAACTGCTCAT
TACTGGGCGTCTACCCGGGAATCCGGGGTCCCTGACCGATTGAGTGGCA
GCAGGG
>252.1
GGCCGAGGTACATTTTACTACGCACCCTTACGCATTCTTTTCTCACCTC
TGTGTGTGTGTGTGCGTGCACATGCACACACAAATGGGTGAAACAATT
CTCACCATACCAAGAGCCACCGCGCCCTGCCGAGAATTTGCATTTCTAAC
AAGTTCCCAGGTGATGCTGACACTGCTGGCTCATGGAACCACTGCTGTAG
TATTTTCAAATATCCTGATTCTAAGAACCACCTATGACCTGTGCTGTT
TTTTCTGTGGTTACTGGCTCATGTCACATAAATTCTTTTAGGATTCAAAC
ATGTTTGTGATATTACTCAGTATTTACATCTTGCTTTTACTGCAGCATGA
TGAAAAAATTAACCACAGGTATATCATAACAAAAAGAACATGAGTTACCA
TTTTCAAAAGTTGAGATATATTTAAATTAGCCTATTTAATCT
>253.1
GCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTCTACCGGTAGC
CTATTTGAGATTTATTAACAAACACATAGGTAACGAGTCAGAGCTTTGGC
TAGGAATGAGTTGGAAGAAGTGAAGGCATAATCCACAGGACATTCAC
AGTTGTGTGCTAGAGACAGAGAGGAGCAGGAAAGTGTGTTAGAAGCATT
GCGGCCGACAATGGAAGGCCCGGCTTCATCGAATTCCTGTTTGTGATCC
ACATCTGCTGGAAGGTGGACAGAGAGGCCAGGATGGAGCCACCGATCCAG
ACAGAGTATTTGCGCTCCGGAGGGGCAATGATCTTGATCTTCATGGTGCT
GGGTGCTAGGGCCGGGATCTCCTTCTGCATTCCGGCGGCAATGCCAGGGT
>254.1
AGCTCACCGCGGTGGCGGACGAGGTACTCATGGTTGCTGTAAATCTGGCC
GCCGTTCTGCAGGGTTATGCTTAGCCAGGCTCCTATGAGATCTGGCTATT
CTGTCTTGTGGATGGTCAGTCCCCGCGTACCTGCCCGGG
>255.1
AGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGATTGTGTGCAAAATCAG
AGGGGGGTGCAAGATCCTGATTTTTCAGGAGTTCAAGCGACAATGGCAGC
CCAATACGGCAGTATGAGCTTCAACCCAGCACACCAGGGGCCAGTTATG
GGCCTGGAAGGCAAGAGCCCAGAAATCCCAATTGAGAATTGTGTTAGTG
GGTAAACCGGAGCAGGAAAAAGTGCAACAGGAAACAGCATCCTTGCCG
GAAAGTGTTCATTCTGGCACTGCAGCAAAATCCATTACCAAGAAGTGTG
AGAAACGCAGCAGCTCATGGAAGGAAACAGAACTGTGCGTAGTTGACACA
CCAGGCATTTTCGACACAAGAGGTGCCCAATGCTGAAACGTCCAAGGAGA
TTATTCG
>256.1
GAGAGAAATCAACTATTCAGGACCGGCCCCCACCTTTCCTCAGGAGTCAT
TTCTGTTCCGCACAGGCCTGCTGAACTGGGTGCTTTATATAG
>257.1
CGCGGTGGCGGCCGAGGTACTCTGACTTGACAGGGCCACAAGACCGGCCTT
GCGAGCGTCGTTGGCTGATGGGAGTAGAAGCCACAGAGAGTCTTCCTCTT
GGAGGTACAGTCAATTCTGAGGTTTGGGCGTCATAGACTAAACCCAGAAA
ACAGAACATTGGGAAGTCTTCGGAATATTCTCTATCTTCTCACCACGA
GTAAGACGTTTTGGAATAATGGGAC
>258.1
ACGTGACCGACGCCAACATTGCGGCGCCAGTTGCGTCCACCTGCTTGTC
CGCAGAGGTTCTCATAGAATTTTCTCTTCACTCAATCATATCTACTT
ACACAAGCAGTCAAGCAGTCAACAAAGAAGAAATTTCTTTTTTCGGAGAC
AAAGAGATATTTACACAGTATAGTTTTGCCGGCTGCAGTTTCTCAGCT

Table 3

CATCCGGTTCCTAAGCACATAAAGAAGCCAGACTATGTGACGACAGGCAT
TGTACCTGCCCCGGCGGGCGGCTCTAGAACTAGTGGATCCC
>259.1
GGTGGCGGCCGGCGGGAGGCTGACGAGAGCCCGGGAGGCGTTAGCGAAGG
AAGAGAAAAACCGAAGACGAAGCCACTACAGCCCCGCGTACCT
>260.1
TGTAAGCCTGGGTGTGCCCTAATGAGGTGAGCCTAACTTCACATTTAAT
TGC GTT GCGCTCACTTG
>260.2
GGGCGGCTTCTTTCCGCCTTTTCCTTCGGCTTCAACTTGAACCTCCGCTTG
CGCTTCGGGGT
>261.1
AGTCATAAAGTGTAAGGCCCTGGGGTGCCTTAATGTAGTGAGCTAACCT
CACATTAATTGCGTTG
>262.1
ATTTATTTATTATGTTGTAGCCGGGGCGGCCGAGGTACCCGATAGAACAT
GGCATCATCACC AACTGGGACGACATGGAAAAGATCTGGCACCCTCTTT
CTACAATGAGCTTCGTGTTGCCCCCTGAAGAGCATCCCACTCTGCTCACGG
AGGCACCCCTGAACCCCAAGGCCAACC GGGAGAAAATGACTCAAATTATG
TTTGAGACTTTCAATGTCCCAGCCATGTATGTGGCTATCCAGGCGGTGCT
GTCTCTCTATGCCTCTGGACGCACAACCTGGCATCGTGCTGGACTCTGGAG
ATGGTGTCACCCAATGTCCCATCTATTAGGGCTATGCCTTGCCCCAT
GCCATCATGCGTCTGGATCTGGCTGGCCGAGATCTCACTGACTACCTCAT
GAAGATCCTGACTGAGCGTGGCTATTCTTCGTTACTACTGCTGAGCGTG
AGATTGGTCGGGACATCAAGGAAAACTGTGTTATGTAACCTCTGGACTTT
GAAAATGAGATG
>263.1
ACTTTTTTTTTTTTTTTTTTTTGCAGCCGTTTTCTTACTAGAAGCTA
GGCGGAAAGAGGTGTTACTCAGATTTCTTGAACCTGAGACGTCAAAGGTG
AGACGCCAGCCAAGGAGAAGGGATGGTCAGGG
>264.1
GGCCTTTAAGCCTTCGCTTTGGCTTCAGCTTAGGAGGGGCAGGAGCTT
CC
>265.1
CAACCGGGACCCAGCTTTTCAGAACTGCAGGGTAACAGCCATCATGAGT
GAGGTACCAAGAATTCCCTGGAGAAAATCCTTCCACAGCTGAAATGCCA
TTTCACCTGGAACCTATTCAAGGAAGACTG
>266.1
TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTCTAGGTATTGCTGGG
CAAGATCCTTGTTGGAGTCCTCCTCTTTGCTGCCCACTCAGAGGATAG
GCAGAGCAGACTGGCAGACACAAGCAAGGAATGCAAGATGCATCAT
TCTCACTGCCCTTACCTTCTTTGTCTACTGGGCTTCTCCCCGCGTACCTG
CCCCGGCGG
>266.2
GAGCCGCCGGGCAGGTACTACCTTACCAACTTTTTCATTTGGGCATCAC
AAAGACGAGTCTTCTGATGTTCTATAAGCAATATGTTTATATGAAAGTCA
GAAGTTTAGCGAAAATTCGGCCTAAACAGTAATAAATGAAAATGGAATGG
AAATCAAAGTTC
>267.1
ACTTTACCTCATTTCTACCAATCATTTTAAGAGAATTTGGTTGTATTT
AAAGAACAAAACAACAATTTCTGTCCTGCTGTTTATTTTAGCGTGGTC
GCGGCCGAGGTACGGATACAATTCGCTGAGTTAGATTCAAATTCTAAC
CTCTCCATCACACGCCCCAGAAAGGACAGTAGCCAGCTTCTCTGGATGCT
TTGCCAAGCAATTGACTCCATCACGGTGACCATCCAGCGAAGCAAGGAAT
GGTTTTGCAAACTACTCGTTCCAGTTTGGTAGCATTTAAAGCTCTTATATA
TTCTCGTGGGACCTCAAAAGGATGTAAAGCAGGATCATAGTTTCTTGAA

Table 3

CTCTCTGTAAGTCCAACCTTGGTTTTGCGGACATAATTGTCCGGATTCCGG
CTCAGCATCTTCACCTTCATCTCGGTTGCTCTTC

>268.1

ACATTTATATGAAAGTCCTCACTTTTCTGAAAGCAGAAAAGGAGTAAGTAGA
TGGGCATTTTCTATACCAGCTAAGGCTTTAAACATAACAACGTCTACTGA
ACTATTTTCTACTTTTACTTTGACTGAATAAGCCAGTGAGATCGTGACTGCA
AGTGGAAGACCTTCTGGCACTGCGACCACTAAAACCTGTAACCTCCAATAAT
GAAGAACTTCACAAAGTATTGTATATAAATTGGTGTGCACTCAGCAAGCC
ATGGTCTTTTCTGAACCCAGAAGGTGTCAATGACAAAATATAACTACTAGA
ATGATAACTGTGATGGCAGGCATCAACAGACCTTTTCTGAAATAGAAATGAA
AGAAAAATGTGATTATTAATTTTCCAGACACTAACCCTTGACAGATATAA
ATTAACACTGTAAAGAGTTATAACTTGCTTGATAGTATTGAATTTCTCT
GAGAAATTACTTCTTCTTGACACCTTATAACTTGACATTGTCAGATTTAA
TTTTTT

>269.1

TTGGAGCTCCACGCGGTGGCGGCCGAGGTACGCGGGATAGTGGAGGCACT
GAAAGACCAGCAGAGGCATAAGGTTTGGGAAGAGGTTGTTACCGTGGGCA
ACTCTGTCAACGAAGGCTTGAACCAACCTCGAGCGGCCGCCGGGCAGGT
ACAGATGCACAGGAGGCCATAGGGTTTAGGCAAAGGGGAGCACAAAAGTT
GAAGATGAGGCGCTGCCACCAATGCTGGGACTTCAGGCCAGGGGCAGGAG
CTGAGGAAGCCACAAGGAGGACATTTTCTGCAGTTGCTGAACCAAGTAGC
AACCAGGTCCTGAGAAAGCCCTCTCTTGTTGGAAGAATAACAGCCAGGAGG
AAAAGCTTTTCTTCTGCAAAGCTGGGGCAGAAAAGTTCTTCTTTGAATCC
CGCGTACC

>272.1

TTGGAGCTCCCCGCGGTGGCGGCCGAGTCCCACAGTTAGCTGCAGCAAAA
CGCAGGCTGCCTCAGGGAAAGGAGCCTGGGTTGATTAAGTTGTGTGTCAA
TGTCACCCCGTCCCAGGTAACATTTTGCCCCCTGAGGTCCGGGGTAATT
TAATGGCTGCTGGACAAAACCTCCAAAGTTCTTGAAAGATCAGAAATGAT
AGCTACCTGGAGTCCAGCTGTACGGCACTTGGCGTAAAGCCGCTTCCCTC
AAGAGTAACATAATCTTCCCATGCACAAGATGATTAATACAGATCTTAG
CAGAATCTTGAAAGGCCAGGAGATCCAAAGAGCCCTTCGAGCACCACGC
AAGAAGATCCATCGCAGAGTCTTAAAGAAGAACCCACTGAAAACTTGAG
AATCATGTTGAAGCTAAACCCATATTGCAAAGACCATGCGCCGGAACACC
ATTCTTCGCCAGGCCAGGAATCACAAGCTCCGGGTGGATAAGGCAGCTGC
TGCA

>272.2

CGGCACTACAAGCCCAATCAATGAGAAGGCCGCGGTTGCAGGCAAGAAG
CCCTGTGGTAGGTAA

>274.1

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGCGTCGATGCTATGCGCT
CAGTTCTAGTCAGAATAATCTTGCTCATCCTCCAGCTCCCCCTGTTCCAC
CAAGGCAGAATTCAAGCCCTCATCTGCCAAAACCTACCACCAAAGACTTAC
AAACGGGAGCTTTTCGACCCCCCATTTGTACGCGGGGAGGAGCCTGAGGA
AGAGGGCGGCGACGGTGGTGGTGAAGGAGCGGAGCCCGGTGACAGGATGT
TGGTGTGGTATTAGGAGATCTGCACATCCCACACCGGTGCAACAGTTTG
CCAGCTAAATTCA

>274.2

AAAACTCCTGGTGCCAGGAAAAATTGAGCACATTCTCTGCACAGGAAACC
TTTGACCAAAGAGAGTTATGACTATCTCAAGACT

>276.1

CGCGGTGGCGGCCGAGGTACGTTCTATTCTGCTCCTATTAGGTCCTTCT
CACCGCACCGGCCCTCGGTGATTACGCTCTCCAGTTCTGCTGGGGACG
TTCTAGCCTCGCCCCACGCGCTCGATCTTTATGTTATACCGTCACTCCC
AGTGCCCTAATGGAATATCCCTCCACTCACTCCCCCTGGTTCTACCCCG
GCTCCAAGAGCCTCTCCCGG

Table 3

>277.1
GGAGCGGGCCCTACCGTGTGCGCAGAAAGTGGAGGCGCTTGCCTTCAGCT
TGTGGGAAATCCCGAAGATGGCCAAAGACAAGTGAAGCTGTTCCGGTGCTTC
CAGGGCCTGCTGATTTTTGGAAATGTGATTATTGGTTGTTGCGGCATTGC
CCTACTGCGGAGGTGCATTCTTCTTTGTATCTTGACCAACACAGGCCTCT
ACCACTTGCTTGAAGCCACCGACAACGATGACATCTATGGGGCTGCCTG
GATCGGCAT

>278.1
TTGGAGCTCCCCGCGGTGGCGTTCGCCCCGGGCAGCTACTTTCATCCATAA
AGGCCTGCAGCTGTTTCATTGATCCTTGCAGTTCATCCATCACCAACTCC
ATACAGTCAAAGACTTTGCTCTGGTTCTGTAATATTTCTGGTAGTCAGG
TTTTGTATTAAGAACTTCATTCTGAGAAGACCCAAGATATGTCATAGGTT
CCACTTTGACCTCAGTAATTTTGGCCTCAGTTGATCCTCTGGACAATATC
TCTTAGCCTCCTGCTGGTAGTGAGGCAAGAGCTGATCCCAAGTCTGACG
TTCTAAAGAAAACCTTTGTTATGTATTCTTCATCTCAGCCACAGATGCTT
CCAAAGAAAAATCTGATGCTTTTCCATTTGAATCTTCAAAACATTTTTGT
AGAGTTCATCAGTTTCCAGTCCGTCTGCA

>278.2
AATGTTTCAATTCTTCAGAAAGAGAAGATGCTTTGGCTCTAAAACCTTCA
AGACTGAAGCCCTTAGTGTCCCTTAGGAAAGGTTCAAGTTTCTGAATAGA
GAAC

>279.1
GCGGTGGCCTCCGAGGTACTACTCTGCACTGTTCTTTCTTTCTAATAAAA
CTTTCCCTGTGCAACCTATACTAGTCTTCTGTAAATTCTTCTTACTACCC
TATGACCCGTGAGCCAACCACTTTCCGATGCCAGGGTCTGACACCTCAC
CTGGCATAATATAAAGTGTTTTTTTTTATACCTTCCACTTGGAAAGA
CTACAGAGGAATCTTGCTCTGCATAGTTCAAACCTAAAAAGAGAAGAGTTA
ATTACCTGAAAAGCAAGAGAAAACAAGAAGGGGTAAATTTGAACCAAGG
GAAATCATTTAAGAAGTGCTGGTATTTTTCAAATTTCTGTCAGTTGTTA
CATTTGTCATAAGTAAATGTTTAGGAATAAAGGATGGAGACATGCTTATT
TTATTTAACTCCCCAAAATT

>279.2
AAAAAAAAAAAAAAAAAAAAAAAAAGTACCTGCCCGGGCGGCCGCTCGA

>280.1
CGCGGTGGCGGCCGAGTGATGCCATCTGCAGTTTTGTGATCTGCAATGA
TTCTTCCCTTCGAGGTGAGCCATTATCTTTAATCCTGACTTTTTGTGG
AGAACTCCGACATGAGAACTGAGATTTTCACTGAGTTGGTGGTCAGC
AATATCACAAGGCTCATCGATTTACCTGGAAGTGAAGTTGGCTCAGCTGAT
GGGGGAAGTGGACCTTAAGTTGCCTGGCGGGGCTGGCCAGCATCAGGAT
TCTTCCGGTCTCTCATGTCTCTCAAGCGAAAGGAAAAAGGAGTGATACTT
GGGTCCCACTGACGGAGGAAGGCATTGCCAGATATACCAACTGATTGA
GTATCTACACAAAACTTGCGAGTAGAGGGTTTGTAGAGT

>281.1
CGCGGGGGGAGACATGTGGAGTCCCAGCAGAGGCCAACCTGTGTCTCTTC
ATCTCCCTGGGAAGGGTGCCCCGAAGTGAAAGAGATGGCCTGGTGAAA
GCC

>281.2
AGATGGGCCAGGAGTCCAGTTTCTGGAAGGCCAAGAATCGAAGTAGCAAG
CTGCAGCCGTTTTCCAGACAAGCATGATGTGGGGATGCAGAAGAATTCAG
GACTGGAGGGGCAAACTCCGATGTGACTGAGGCCCACTGCCAAATGGCG
GCATGCTCAGATAGCACCCAAGAATTTGGGGAAAAAACTGGTGCTCACAG
CT

>282.1
GGGCCCCAGGGGAAAAAACCTTTTGGGCCCATTTTTTTTCCAATTTTCC
AATTGGGCCTTGGGCCA

>283.1

Table 3

GTACAGCATTGGAAATGGATCTGTCTTTGGTAAAGATCAGCCTATAATTC
TTGTGCTGTTGGATATCACCCCATGATGGGTGTCCTGGACGGTGTCTA
ATGGAAGTCAAGACTGTGTCTTCCCCTCCTGAAAGAATGCATTGCGAC
CAAATAAAGAAGACGTTGCCCTTCAAAGACCTGGATGTGGCCATTCTTG
TGGGCTTCCATGCCAAGAAGGAAGGCATGGAGAGAAAAGATTACTGAA
AGCAAATGTGAAAATCTTCAAATCCCAGGGTGCATGCCTTAGATAAATA
CGCCAAGAAGTCAGTTAAGGTTATTGTTGTGGGTTAATCCAGCCCATACC
AACTGCCTGACTGCTTCCAAGTCAGCTTCATCCATCCCCAAGGAGAACTT
TAGTTGCTTGACTTCGTTGGATCAC
>284.1
TGGCGGCCGCCCGGGCAGGTACGCGGGGGCTCTAAGCTGCAGCAAGAGAA
ACTGTGTGTGAGGGGAAGAGGCCTGTTTCGCTGTGCGGGTCTCTAGTTCTT
GCACGCTCTTTAAGAGTCTGCACTGGAGGAAGTCTGCCATTACAGCCT
CCTTTCTTGCCAAAGGGAGGGGAAACATACATTTATTATGCCAGTCTG
TTGCATGCAGGCTTTATGGCTTCTACCTTGCAACAAAATAATTGCACCA
ACTCCTTAGTGCCGATTCCGCCCCAGAGAGACCTGGAGCCACAGAGCTT
TTTTGCTTTGCATTGTAGGAGAGGGACTAAGTGCTAGAGACTATGTCCGC
TTTCCTGAGCTACCGAGAGCGCCCGTGAAGTGAATCAACTGCTTC
>285.1
TGGCGGCCGAGGTACTAGGTCCCAAATGTTTCAACCGATTTTACCCTATG
TTTTCAAGGGTATTATAGAAGGGGAGAGGTATCCTGTAGTGATGTCCACG
TATCTTGGAGTTATGGGTCGAGTTCTACTACAAACACTAGTTTTTTTCT
TCACTTACTAAATGAGATGGCCATAAATTTAATCAGGAGATGGACCAGC
TTTTGGGAAATATGATTGAAATGTGGGTTGATCGAATGGACAACATTACC
CAGCCTGAAAGAAGAAAACCTTTCAGCTTTGGCTTTGCTCTCTCTTCTGCC
ATCTGATAATAGTGTATCCAAGATAAATCTGTGGGATTATAAACATTT
TAAGTAGAAGGCCTGCATGATGTCATGACGGAAGATCCTGAAACAGGAA
CTTATAAGACTGTATGTTGATGGCTCATCTTGAGGAACCAAAGTAACA
GAAGATGAAGAACCACCCACAGAAC
>286.1
GTGGCGGCCGAGGTACCCGATAGAACATGGCATCATCACCAGTGGGACG
ACATGGAAAAGATCTGGCACCCTCTTCTACATGAGCTTCGTGTTGCC
CCTGAAGAGCATCCCACCCTGCTCACGGAGGCACCCCTGAAC
>287.1
CCGCGGTGGCGGCCGAAAACCTGATCAGACTGTCTCAGATCAAGGAAAAGA
TGGCCAGAGAGAAGCTGGAAGAAATAGATTGGGTGACATTTGGGGTTATA
TTGAAGAAGGTTACGCCACAGAGTGTGAATAGTGGAAAAACCTTCAGCAT
ATGGAAACTGAATGATCTTCGTGACCTGACACAATGTGTGTCCTTGTCT
TATTTGGAGAAGTTCACATAGCGCTCTGGAAGACGGATCACGGGACTGTC
GTATGGATCCTCAATGCCAACCCATGAAGCCCAAGGATGGTTCAGAGGA
GGTGTGTTTATCTATCGATCATCCTCAGAAGGTCTTAATTATGGGTGAAG
CTCTTGACCTGGGAACCTGTAAAGCCAAGAAGAAGATGGAGAGCCGTGC
ACGCAGACTGTGAATTTGCGTGACTGTGAGT
>288.1
GCCAAACGCTTCCGCAAAGCTCAGTGTCCCATTGTGGAGCGCCTCACTAA
CTCCATGATGATGCA
>289.1
TGGACAGACTGGCTCAGTGAAGACATTTACTTTGATGGGACCAGATAGAA
TCCGATAATTTTTCTCATAACCTGAGAGGAGTTATCCCACGAAGTTTTGA
ATTTTTGTTTTCTTAATTGATCGTGAAAAAGAAAAGGCTGGAGCTGGAA
AGAGTTTCTTTGTAAGTGTTCCTTTATTGAAATCTATAACGAGCAGATA
TATGATCTACTGGACTCTGCATCGGCTGGACTGTACTTGGCCC
>290.1
TGGCGGCCGCCCGGGCAGGTACGTGCGGGGCTCCGTAGGAAGCCTCATCTC
CCTAACTAGCTGCTTACACAAAG
>291.1

Table 3

CTCCGGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTGG
GGGGAGTTAAATAAAATAAGCATGTCTCCATCCTTTATTCCTAAACATTT
ACTTATGACAAATGTAACAACTGACAGAAATTTGAAAAATACCAGACACT
TCTTAAATGATTTCCCTTGGGTCAAAATTTACCCCTTCTTGTTTTCTCTT
GCTTTTCAGGTAATTAACCTCTTCTTTTTAGTTTGAACATATGCAGTGCA
AGATTCTCTGTAGTCTTTCCAAGTGGAAGGGTATAAAAAAACACTTT
ATATTATGCCAGGTGAGGTGTCAGAACCTGGCATCGGAAAGTGGTTGGC
TCACGGGT CATAGGGTAGTAAGAAGAATTTTACAGAAGACAGTCTAGGTT
CGAAAAAGAAAGTTTTATTGAAAGAAAGAA
>292.1
GGCCTTTTGGTGACTTGGTGCTCCTTGGAGTCACTGGAGTTCTACTTTGA
ATCCCACTCTGACATCAATCGACTGCCTTAATTCCTGGTCCAGCTGCCCG
ACCCTGACTCTCTCCCGCTCTTTTCTCAGGTGCAAGGTTTCCTTTAAGA
TCACGCTGACGTGCGACCCACGGCTGCCGT
>293.1
TGGCGGCCGCCCGGGCAGGACGCGGGGACATTCGAGTGGGGATTAAGAGA
AGGAAGGCTGCCTTGCTGGAGCTGTGTGGTCTTCTCCAAGTGAGAGTCGC
AGGCAATAGAACTACTTTGCTTTTGGAGGAAAAGGAGGAATTCATTTTTA
GCAAACACAAGAAAAGCAGTTTTTTTTTTCAGGTGCTGACGGCCACCCACCA
TCATCTAAAGAAGATAAACTTGGCAAATGACATGCACGTTCTTCAAGGCA
GAATAATTGCAGAAAATCTTCAAAGGACCCTATCTGCAGATGTTCTGAAT
ACCTCTGAGAATAGAGATTGATTATTCAACCAGGATACCTAATTCAAGAA
CTCCAGAAATCAGGAGACGGAGACATTTTGTGAGTTTTGCAACATTGGAC
CAAATACAATGAAGTATTCTTGCTGTGCTCTGGTTTTGGCTGTCCTGGGC
ACAGAATTGCTGGGAAGCCTCT
>294.1
TGGCGGCCGCCCGGGCAGGTACGCGGGAGGCACATTCCTTTCTACGTGAA
GAGTTTTGTAACTGAACCTTTGTTTTCAAGTCCGGCTCCAGCCATCCTCG
GGTAGCTTGCCAATAGATGAATCCCACTCGTTTGACCCATGACGCTCCTT
CTTTGCATTTCTACCTCTTTCCCCACAGCAGTGCATGTCCACCATAACCAC
CTGAGAGTCTGTGGAATCTAATTTTCTGTTATACTTCTTTCTTACACTC
ATTTTCTGTCTTTATTATGATAGTCTAACTTTTTCTCCTCAAAGGTATA
GCTGCCTTGCTTTTATGAAAACACACTTTCTTATTGTGATTTATCAGAGG
CCTTTCCATATCTCAGCCACTATGCTATGACAGATTTTATAATTAATAAG
TGCATTTCAAAGTGAAAACGTTACAAACATGCTTA
>295.1
GTGGCGGCCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAA
TCCGGACAATTATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAA
GAACTATGATCCTGCTTTACATCCTTTTGGAGTCCACGAGAATATATA
AGAGCTTTAAATGCTACCAAAGTGAACGAGTATTTGCAAAACCATTCTT
TGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCATC
CAGAGAAGCTGGCTACTGTCCTTTCTGGGGCGTGTGATGGTAGAGGTTAG
AATTTGGAATCTAACTCAGCGGAATTGTATCCGACT
>296.1
GCGGCCGCCCGGGCAGGTACGCGGGGCTCCCTTGTGAGTAGACTATGCAA
AGAAAAAGTGGGCCACCATATCTGGAACTACAGTCTATGCTTTGAAGCG
CAAAAGGGAATAAACATTTAAAGACTCCCCGGGGACCTGGAGGATGGAC
TTTTCCATGGTGGCCGGAGCAGCAGCTTACAATGAATAATCAGAGACTGG
TGCTCTTGGAGAAAATATAGTTGGCAAATTCCTATTAACCACAATGACT
TCAAAATTTTAAAAATAATGAGCGTCAGCTGTGTGAAGTCCTCCAGAAT
AAGTTTGGCTGTATCTCTACCATGGTCTCTCCAGTTCAGGAAGGCAACAG
CAAATCTCTGCCAGTGTTAAACAAAAATGCTGACTCCT
>297.1
GTGGCGGCCGCCCGGGCAGGTACGCGGGGGGAGGGCTCCGAAGTCTGGTT
TTGGGCGGGAATTGAAACCGCCGCTGAAGCCAACAAGAATTTGAGAACTG
TAAATACCAAGCCTTGAAAGGGACCATGGTGCGGCCTGTGAGACATAAGA

Table 3

AGCCAGTCCATTACTCACAGTTTGACCACTCTGACAGTGATGATGATTTT
GTTTCTGCAACTG
>298.1
TGGCGGCCGAGGTAAGTACTCCCCAGCAAATATTCTTTGTTGGCTTGCTTGACT
AGATGAGCTGCTATAGTAGTCAATCCTGTTAGACTTGGACCAATTGTTTGT
CTGAAGAACTGGAATCTGTGCTCGCCCTGAGCACTGTATTTATCCCCCT
TACTCAGTCCCAGGGACTTCTCCAATAGCGACAACCTCTGCGGCCGCCGCC
ATCTTC
>299.1
TGGCGGCCGAGGTAAGTACTTCTGTCTTCCAGTTTTCCACTTCAAACCTTCTATC
TTCTCCAAATTGTTTCATCCTACCACTCCCAATTAATCTTCCATTTTCG
TCTGCGTTTAGTAAATGCGTTAACTAGGCTTTAAATGACGCAATTCTCCC
TGCGTCATGGATTAAGGTCTTTAATCACCTTCGGTTTAATCTCTTTTT
AAAAGATCGTCTTCAAATTATTTAATCACCTACAACCTTTAACTAAAC
TTAAGCTGTTAAGTCACCTTCATTTAATCTAAAAGCATTGCCCTTCT
ATTGGTATTAATTCGGGGCTCTGTAGTCCTTTCTCTCAATTTCTTTAA
ATACATTTTTTACTCCATGAAGAAGCTTCATCTCAACCTCCGTCATGTTT
TAGAAACCTTTTATCTTTCTTCTCATGCTACTCTTTTAAATCTTCAT
ATTTCTCTTAAATCTTAAG
>300.1
GGCGGCAGGTAAGGTTGACTGGTAATCAGGGTAACCTCTGATACTT
ATCACACAAGATGGTGCCTCAGCATTTAAATAAATGGAGGTAGGGGAGGG
CGTGGTGGTAACATACTTTAAACCAGCGATTGCACAGCAAACCACAATG
CAAGTATTTCTGACTCCCAAGATTGCCGTTTCTAAAGAGCAATTCTTCT
GCAGGCAACAGCAAACCTACCTTTCTTGTAACTGCTTTCAGTAAATTC
TTGATGGCCTTCGATTCTGGATTCTGACATCTCTTCTCACCCTTCTTTT
CATTGTAGCAATGATCTCAACACGTGGACAAAATTGGCTTGCAGGAATAA
T
>301.1
CGCGGTGGCGGCCGGAGTGATGCCATCTGCAGTTTTGTGATCTGCAATGA
TTCTTCCCTTCGAGGTCAGCCATTATCTTTAATCCTGACTTTTTTGTGG
AGAACTCCGACATGAGAAACCTGAGATTTTCACTGAGTTGGTGGTCAGC
AATATCACAAAGGCTCATCGATTTACCTGGAAGTGAAGTTGGCTCAGCTGAT
GGGGGAAGTGGACCTTAAGTTGCCTGGCGGGGCTGGCCCAGCATCAGGAT
TCTTCCGGTCTCTCATGTCTCTCAAGCGAAAGGAAAAAGGAGTGATTTT
GGGTCCCCACTGACGGAGGAAGGCATTGCCAGATATACCAACTGATTGA
GTATCTACACAAAACCTTGCAGTAGAGGGTTTGTAGAGTACCTCGGC
CGCTCTAGAACTAGGTGGATCCCCCGGGCTTCAGGAAT
>304.1
TTGGAGCTCCACGCGGTGGCGGCCGTCGCCGAGCTTTCTCTGTCCATC
TTCTCCCGCTGCTGAAATTTCAAGTTGCGGGCGCTGTACCTCAGGACCCC
TCCCCCGCGTACGCTGGATAGCCTCCAGGCCAGAAAGAGAGAGTAGCGC
GAGCACAGCTAAGGCCACGGAGCGAGACATCTCGGCCCGAATGCTGTCAG
CTTCAGGAATCCCCCGCT
>305.1
ACTCAGGTTTTATCTCTGCACTCCAAGTAGGATGAAAAGTAAAGAGCAAA
GGTCATGTTTGCCAAGTCTGTCTTTGTAACAAAAAACCAGCAGCTT
TATCAAGCAGAATTCACCTGTATTTCTTAAGTGGCAGAGCTGAGTCTC
ATGGCCACCCTTAGCAGGAGTTGGGGAGGTATTTTAAACAAAGGCACATTA
TCATCTCCCCACCCAAAGTGGAGCTATTGCTAATGAAAAAGATACAATG
AGATGTTTATGAAATTATCTGTAGCTATTAATGTCAGGTTTTTGAAATTT
ACTGACCTGGAAGAATACTCATAATGCAATGTCAAGTGAGAAGCAGGACA
AAGAACATTTGCAATACAGTTGTATTTATAAAATTTTGTACACACAA
>306.1
TTGGAGCTCCCCGCGGTGGCGGCTCGAGTACGCGGGGAGGCAGCGGAAAG
CTCAGCCCATGTGAGGTGCCTCCTGCCAATCACAGACTACCCTTCCCTGG

Table 3

TCCTGGAGGTTCAAAGAATTGCAGGAGGGTAGAAAAGCACCTGGGTCGGG
TGCAGACTGCGGAGCGGGCCCTACCGTGTGCGCAGAAAGAGGAGGCGCTT
GCCTTCAGCTTGTGGGAAATCCCGAAGATGGCCAAAGACAACCTCAACTGT
TCGTTGCTTCCAGGGCCTGCTGATTTTTGGAAATGTGATTATTGGTTGTT
GCGGCATTGCCCTGACTGCGGAGTGCATCTTCTTTGTATCTGACCAACAC
AGCCTCTACCCACTGGCTGAAGCCACCGACACGATGACATCTATGGGGC
TGCCTGGATCGCATATTTGTGGGCATCTG
>307.1
ATCACCATTATTCCCCTTTAGTCACCTCAGAGGCTTGTTAATGCTTTCTT
TGTAATTAGGCTATATCTGGTATCTGTATAATATCTTCAGTTCTTCTTTA
CCAGGGGTCTTACTCTGTTCTGAAACATGGCACCTCAGGCGGCTCCGGCA
GCGCTGGACACAGGAACTCCTGGGTCCCCGACTCCGGCTCTCCTCTACC
CCCTCTTCGGTTAACTCCGCTTGTTTCTCTACAAAATGGCGCCGGAGGTC
CCCCGCGT
>309.1
TTTACAACCACAGCTAATGCAATTTTTTCCATTGTTCCCATTTTTTTCCA
AACCTATTGGG
>309.2
GCAAAGCCCATTTTTTCCATGCATCTAAATGATAGATACAGGCTATGAA
ATTCTTTATTCTATTTGTAGCAGCTTATGCAGGTGCAGCCAAACACAAAG
CTTCAGGACAAATTGTACCTGCCCGGGCGGCCGCTCT
>312.1
CGCGGTGGCGCTGCCGCGCCAGACTCTTGAGAAAGTATAGCAGCAAACA
ATGCCTATTTTACAGGAAACAGAACACATACCCAGAAAAATGCCCTGGC
AATCATCAAAATCACAGTTTTCCAACATCAATAAAGTGTTTAACTCCTCAT
TTGAAAGATGGTGTTCTCGGATTGAATATTGAAGAATTAATAGAGAACT
TCAGTCTGGAATGGAGGTTATGGATCAGATTGTGATGTGAGAATATCTG
ACATAATGGATGTATATGAAATGAAACTATCCACATTAGCTTCCAAAGAA
AGCAGGCTACAAGATCTTTTGAAACAAAACTCTAGCCCTTGACAGGC
TGATAGACTGATTGCTCAGCATCGCTGTCAAAGAACTCAAG
>313.1
TGGAGCTCCCCGCGGTGGCGGCTTCCCGGGCAGGCACCTTAGCATTAGAT
TGAGTTATGTTGCTAGGAGATGTTTATTCATCAGCTGATCATTAAGCATA
TGGGGCTTACTTGCCCCCTATCAATTTGCGTCAAAATAAATTAATTGT
AGACCTGTCTGTTTTATGAAAAGCAATGTGATAGTCTTTAAATTTATC
TTTCTAAACAAGACACAAGTTTACACATTACCCAGCACAGTAACCCCTCT
TGGTATTGTTTACCTAAAAGGAAGAAGTGATAGGAAAAACTGATATAAGTA
GAGAGTTTATTTGGGCCAAGCATGAGGGTTACAACCCAAGTGTATGGAGA
CAAGTTGTCCTGAACAATACACATTC
>314.1
CGGTGAGGTACGCGGGGGTCTGAGGTTCAAAGAATTGCAGGAGGGT
TTAAAGCACCTGGGTGCGGTGCAGACTGCGGAGCGGGCCCTACCGTGTGC
GCAGAAAGAGGAGGCGCTCAGGAATGCATGAATTGATTAATTAATGTGC
AGAGCTGTAGATGGCTTTTCTCAAGGTGCTTCAAGTGCAGAAGCCCAAGT
GATTGACCCACACACTTACCTTTGTGTTCTTCCAGAAAATCCTCAGGGA
GTGCCTTCAGCTTGTTGGGAAATCCCGAAGATGGCCAAAGACAACCTCAACT
GTTGCTTGTCTCCAGGGCCTGCTGATTTTTGGAAATGTGATTATTGGTTG
TTGCGGCATTGCCCTGACTGCGGAGTGCATC
>315.1
GCGGTGGCGGCCTCCCGGGCAGGACCCTTAGCATTAGATTGAGTTATGTT
GCTAGGAGATGTTTATTGAGTCAGCTGAAACTTAAGCATATGGGGCTTAC
TTGGCCCCCTATCAATTTGCGTCAAAATAAATTAATTGTAGACCTGTCT
TGTTTTATGAAAAGCAATGTGATAGTCTTTAAATTTATCTTTCTAAACA
AGACACAAGTTTACACATTACCTTTTGTAGTAACCCCTCTTGGTATTGTTT
ACCTAAAAGGAAGAAGTGATAGGAAAACTGATATAAGTAGAGAGTTTATT
TGGGCCAAGCATGAGGGTTACAACCCAAGTGTATGGAGACAAGTTGTCCT

Table 3

GAACAATACACATTCTTATTAGCAACAGTTATAAGTAGGTTTTCAAAGAA
AAAGAAGAGGCAGTTCCTAAG

>316.1

ACAGAGACCTCCTTACTTACCCCCCTTCTCCTTCGGCTGGAGCTCGGCGA
GCGAGAGGCGGCGCTGGCGTTGGAGAGCGACGGCGCCCCCGCGTAAGCA
GTGGTAACAAACGCAGAGTAACGCGGGAATGAAGAATCTTAGCGGGTGCA
CCCAGTTTCCACCATGATTAAGGGTCTTTACGGAATAAAGGATGATGTCT
TCCTTAGTGTTCTTGCATTTTGGGACAGAATGGAATCTCAGACCTTGTG
AAGGTGACTCTGACTTCTGAGGAAGAGGCCCCGTTTGAAGAAGAGTGCAGA
TACACTTTGGGGGATCCAAAAGGAGCTGCAATTTTAAAGCCTTCTGATG

>317.1

CCCGGGCAGGTACTCTGCAGAAAGTATAGCAGCAAACAATGCCTATAGAC
AACAGGAAACAGAACATATACCCAGAAAAATGCCCTGGCAATCATCAAAT
CACAGTTTTCCAACATCAATAAAGTGTTAACTCCTCATTGAAAGATGG
TGTTCTGGATTGAATATTGAAGAATTAATAGAGAACTTCAGTCTGGAA
TGGTTTTTAAAGGATCAGATTTGTGATGTGAGAATATCTGACATAATGGAT
GTATATGAAATGAACTATCCACATTAGCTTCAAAGAAAGCAGGCTACA
AGATCTTTTGGAAACAAAACCTCTAGCCCTTGACAGGCTGATAGACTGA
TTGCTCAGCATCGCTGTCAAAGAACTCAAGCTGAAACAGA

>318.1

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTATTGATGTTGAAGAT
GAGAAATCTCCTCAGACTGAAAGTTGCACTGACAGTGGAGCAGAAAAATGA
AGGTAGTTGTCACAGTGATCAGATGAGCAACGATTTCTCCAATGATGATG
GTGTTGATGAAGGAATCTGTCTTGAAACCAATAGTGGAAGTAAAAAGATC
TCAAATCTGGACTTAAAAAGAATTCCTTGATCTATGAACTTTTCTCTGT
TATGGTTCATTCTGGGAGCGCTGCTGGTGGTCATTATTATGCATGTATAA
AGTCATTCAGTGATGAGCAGTGGTACGGGTGGGAATAGCACTACACTGTT
CATCTAGCCTTGTAAGAATAAGTCCCAGTGAAGTGAATTTCTGCAGAATCT
TCACTGTTATATA

>319.1

ACTTTTTTTTTTTTTTTTTTTTTTCAATGTTCAAGTTTCTTTAATGACC
CCCATCTCCCTGAAGGGCAGGTGCAGGCAGCTAGGTGATGGCAAGAGATG
TTCATTGAAGATCTTGCCCTGATTGAAGGCTTTGCCACATGCTGGAAG
GCCCCCTCCCAGGAAAAGTACCAGACATCAGCTGCCTCTTCTTCATTTTC
AGCCAAAGAAAGGGCACGTTCAAATGAGGTGAGAGTCATATCATACTGCT
GGGCATAGAAGCAACACAGCCCCAGATTGTTAAAAAGCTGGCCGTTATAA
ATGCCCATCTGCAGCAGCCGCCTGTAAAACCGGAGAGCTATTTCTGGCTG
ATCAGAATAGAAGTGGTTGCTTCCAATGCATGCG

>323.1

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTCAATACTTAAAAATAG
TCTTCCACAAAAATACTTTATTTCTGATCTATACAAATTTTCAGAAGGTT
ATTTTCTTTATCATTGCTAACTGATGACTTACCATGGGATGGGGTCCAG
TCCCATGACCTTGGGGTACTTTTTTTTTTTTTTTTTTTTGGAAAGCT
CTGCCATAAACTTCTAGCGTGTGCCAATGGTCACCTGCCACACTCGCACC
AGGTTGTCCGTGTAGCCAGCAAACAGAGTCTGGCCATCAGCAGACCAGGC
CAGGGAGGTGCACTGGGGTGGTTCTGCCTTGCTGCTGGT

>324.1

ACTTTTTTTTTTTTTTTTTTTTTTAGGGGGAGTTAAATAAAATAAGCAT
GTCTCCATCCTTTATTCCTAAACATTTACTTATGACAAATGTAACAACTG
ACAGAAATTTGAAAAATACCAGACACTTCTTAAATGATTTCCCTTGGTTC
AAAATTTACCCCTTCTTGTCTTCTTGTCTTTTCAAGTAATTAAGTCTTC
TCTTTTATGTTTGAAGTATGCAGTGCAAGATTCCTCTGTAGTCTTTCCAA
GGGGAAGGGTTTAAAAAAA

>325.1

TTGAGCTCCCCGCGGTGGCGGCCGAGGTACCATCAAGTTAAAGCAGAAG
ATGCTTCTGGTAGAGAGCATTTAATCACTCTCAAGTTGAAGGCAAAGTAT

Table 3

CCTGCAGAATCACCAGATTATTTTGTGGATTTTCCTGTTCCATTTTGTGC
CTCCTGGACACCTCAGGTAAATTCTCCTCAGAGCTCCTTAATAAGCATT
ATAGTCAGTTTTTGGCAGCAATAGAATCACTAAAGGCATTCTGGGATGT
ATGGATGAAATCGATGAGAAGACCTGGGTACTTGCCCG
>326.1
TGAGCTCCCGTGGTGGCGGCCGCCCGGGCAGGACTTTTTTTTTTTTTT
TTTTTTAGGGGGAGTTAAATAAAATAAGCATGTCTCCATCCTTTATTCC
TAAACATTTACTTATGACAAATGTAACAACTGACAGAAATTTGAAAAATA
CCAGACACTTCTTAAATGATTTCCCTTGGTTCAAATTTACCCCTTCTTG
TTTTCTTTGCTTTTCAGGTAATTAACCTCTCTCTTTTAGTTTGAACATA
TGCAGTGCAAGATTCTCTGTAGTCTTTCCAAGTGGAAGGGTATAAAAAA
AAACACTTTATATTATGCCAGGTGAGGTGTCAGAACCCTGGCATCGGAAA
GTGGTTGGCTCACGGGTCAATTAGGGTAGTAAGAAGAA
>327.1
GTGGCGGCCGAGGTACTTAAACCAAATAAAAAGTGACATTTGAATTTCT
TTTAAAAGGATTTCCGAGCTCACAGTCAGCTTGCGAGCCATTCTCCCGCG
TACCAGCACAAACCGGGCCAGCCTCCTAAACTGCTCATTTACTGGGCGTC
TACCCGGGAATCC
>328.1
CCGCGTCCGCCTCTAGTGTACAGACACTCCTGGGTTTGAATTTTGTG
TTCTCTGTCTCTTTGATTTCTGGAAGACGACACCATGACAATTTCAAAG
AAAATAGAACAAATGAAGGAAAAAGAGGCTCTGTCTTAGCACATTCCTG
TGACCAGCCTGCTGTCTGTGGCGTGCCCTCCTGGCCCGGCCTTGGCACAT
GTTGCTTTTTGTGGTTGTTGCCTGGACAGGCAACTCTGCAGGGCTGCTTC
TCTACGCATCCCTTTGCCTGCCTGCCTGTGCCAGGGGTTGTCAAGGGCTT
TTGGGTGAGAGTGGGCACCCCTTTCTCCAAGGCTCCCTGCAACAGCTGGC
CTGTCCCTGGTGGGGCTGACAGCTTTCTTCTTACCCTGCCAGGCTGGCCA
AGCCCCAGAGGTGACCTATGAGGCAGAAGAGGGCTTCTT
>329.1
TACTTTACAGGATGGCATTTAATACAGATATTTTCGTATTTCCCCCACTGC
TTTTATTTGTACAGCATCATTAAACACTAAGCTCAGTTAAGGAGCCATC
AGCAACACTGAAGAGATCAGTAGTAAGAATTCATTTTCCCTCATCAGTG
AAGACACCACAAATTGAACTCAGAACTATATTTCTAAGCCTGCATTTTC
ACTGATGCATAATTTTCTTATTAATATTAAGAGACAGTTTTCTATGGCA
TCTCCAAACTGCATGACATCACTAGTCTTACTTTTGCTTAATTTTATGA
GAAGGTATTCTTCATTTTAAATTGCTTTTGGGATTACTCCACATCTTTTG
TTTAATTTCTTGACTAATCAGATTTTAAATAGAGTGAAGTTAAATTGTGG
GTCATAAAAAGCATTGGATTGACATATGGTTTGCCAGCCTAAGGGTTTAC
AGGCATTGTCCAAACATTTTTTGAGAACTATATTTATAAG
>330.1
CCGCGGTGGCGGCCGAGGTACGCGGGGATAGTTCACTCACTTTCAAAGCC
AGCTGAAGGAAAGAGGAAGTGCTAGAGAGAGCCCCCTTCAGTGTGCTTCT
GACTTTTACGGACTTGGCTTGTTAGAAGGCTGAAAGATCGAGCGGCCGCC
CGGGCAGGTACTTTTTTTTTTTTTTTTTTGGCTTTCTTTGCTCCTTTC
TTATGATCAGCCACATTTCTTCGACCTCCTTCTCCTTCATCCTCAGAATC
TGAGAATTCTTCATCACAAAGCTATCCGCTTGTCTGATGCTCGAATAGAAA
TTCTCTTGTCTGGATCTTCTCCATCTTCATCTCCACTGTCTTCATGAACA
GCATCTTCTGGAATAGCCTGCATCTGGACACCAGGTGCATGAGGTAACAT
GCGCAAATTTTCAAACAAACGCTGTTTTATCTTTTCCATATATTTGGAGT
GTTCTGGTTTGTGATGTTTG
>331.1
TGAGCTCACCGGGTGGCGGCCGGGTACTAGCAGTTGCCATGAAGGAGGCT
TTGTTTCGATTGTATAACACAGAATCACAAAGTTTCAGAAAGAAGTGCTTC
AAAGAATGGATGGCTCACTGGAATGCCGTCTTTGACCTGGCCTGGGTTCC
TGGTGAACCTTAACTTGTACAGCAGCAGGTGATCAAACAGCCAAATTT
GGGACGTAAAAGCTGGTGAGCTGATTGGAACATGCAAAGGTCATCAATGC

Table 3

AGCCTCAAGTCAGTTGCCTTTTCTAAGTTTGAGAAAGCTGTATTCTGT
>332.1
CCGCGGTGGCGGCCGCCGGGCAGGTACCATCTGACTTGGCAATGTAATG
ACACACACGTTAGTGTGGGGCACAAACGTGGAATATTAGGAGAGAGCTGG
TTCCAGCACCAAATCCAGAGTCACTCGGGGAAGGAGGTATGGTGGCAACA
CTTTATGCTTAATATTCAATTCTGCTCCAGTAGAACATGGTACCT
>333.1
GTGGCGGCCGCTCGGGCAGGTACGCGGGGACTCTGAACGTGCTAAAATGG
GAAGGAGGCGGTGTTTGTCTGATCTGTTAAATCTTAGTGAAGTTTCCTT
GATTTCCAGTGGCTGCTGTTGTTTGAGTTTGGTTTGGAGCAAAACTGAGG
TAGTCCTAACATTTCTGGGACTGAATCCAGGC
>334.1
CCCCGCGGTGGCGGCCGAGTTTGATTTCTTGCAGTCTGAGCGATGGAGC
CCGGGGGTGCCTGGTTATTGTCCGCTTTCTCTCTCAGATGCTTGGCTTGT
TTTTCAAGAGAACCTTTTTCGATATTCATTGCTCCATCGATTGGATCCAG
TCCTTGTTTCAGAAAATTGTTTCAAGGCACTTAAGGCTGCCTGAAAGCCTT
GAATCCTTGCTAAATATTCCAGTTGTTTGAAGGTTGTACCTCGGCCGCT
CTAGAAGTAG
>335.1
ACTTGACTGCTAACAACTTTCAAATTCTTCTACTTACTCCCTCTTCTTCA
GCTTCACATCTGGGAAAAGTATAGGGAAGCCTAGGTAGGCCTACCTTTG
GTGCCAGAGGGAAGCTCAATCCATGCAAGCCCCAGATAATATATGAGAAC
CTCCCCAACCTTACCCTACACCCCTCACCTCCCAATCCAAGCCAGTCTCC
TTTCCCTGCTTTCTCAAACCATGTTTGGACCTGCTTGAAGCTCCCTCTG
CTCTCCCTAGAAAAGCTTCATTATGTGAGTGATACATCTTTTCATATCTT
TTGGTGGTGTGTGTGTATCATCAGCCTCAACATCTGAAGCAAATGTT
GGGGGGGGGT
>336.1
ACTCATGAAGGAGATGGCCCTTTGGGAGCAACCAGAGAATCACTGAGAT
CCCAATGGAAACAGGAGGTTTCAGCCAGAGGAACCGACTTTTAAGGGATCA
CAGAGCTCACACCAAAGACCAGGGGAACAGTCAGAAGCCTGGCTTGCTCC
TCAGGCTCCCAGGAACCTGCCTCAAAACACAGGTCTCCACGACCAGGAGA
CAGGTGCTGTGGTCTGGACAGCTGGGCCCCAGGGACCAGCCATGCGTGAC
AACAGAGCTGTATCCCTCTGTCTAGCAAGAATGGATGTGCCAGGCCCTGC
ACAAAGGGGCCCTCTACAGGGGTGCCACCCAGAGGAAGGACAGTCACGTCT
CGCTGGCAACAAGGTGTGCCCTGGGGCTATGAAGAGACCAAGACGCTCCT
GGCTA
>337.1
GGTGGCGGCCGAGGTACGCGGGATAATCAAGGTGTACATCCCGGTGGCT
GGACATGCCCTCTTGGGCTTGGCAGATGCCAGTGGATCCATACAACACT
CCGCCTGGTGGAATCTGAGAAGAGCCACGTGCTGGAGCCATTGTCCAGCC
TTGCCCTGGAGGAGCAGTGTCTGGCTTTGTCCCTAGATTGGTCCACTGGG
AAAAGTGAAGGGGCCGGGGACCAGCCCTTGAAGATCATTAGCAGTGAATC
CACAGGGCAGCTCCACCTCCTGATGGTGAATGAGACGAGGCCAGGCTGC
AGAAAGTGGCCTCATGGCAGGCACATCAATTCGAGGCCTGGATTGCCGCT
TTCAATTACTGGCATCCAGAAATTGTGTATTAGGGGGGCGACGATGGCCT
TCTGAGGGGCTGGGACACCAGGGTACC
>338.1
GGGGAGGCCAAAAAAGGGGGGGGAAAAAAGCCCCGGGGGGGGGGGGGG
GC
>339.1
TTTTTTTTTTTAAATGCTGAAGATTTAGATTTATTTGAAAACACTTAGT
CTAATTTATATTAGTGCAGAAAAATCACATTCAATAAACCACAATTGTAG
AAGAGACAGATAAGTGTGTTTGTACATTTTACACAAATATAATTTGAT
ATTTAATTAAGGGATGATGAAT
>340.1

Table 3

GGAGCGGGCCCTACCGTGTGCGCAGAAAGAGGAGGCGCTTGCCTTCAGCT
TGTGGGAAATCCCGAAGATGGCCAAAGACAACCTCAACTGTTGCTTGCCTC
CAGGGCCTGCTGATTTTTGGAAATGTGATTATTGGTTGTTGCGGCATTGC
CTGATGGGAGTGTATC

>341.1

AATACTGCCAGTTTTCCAAGAAATTTGTAAAGTTGAACATGGCCATCTA
CTCTTGCCTTAAAACTTTTCTCACCACACCCACCTTCCCACATGCATGAT
ATCCAAGGTCGACAGACCTGGATTAGAATCACTCTAAGCTTTATGCAGTG
CGTATTGTATTTTCTGCATAAGAAAGGGCTGCCTCTAGAACACAGTAAGT
GTATTTGCCCAGTAGTGACATTGCCTACATATAGCCAAGTGTTATAGTAT
ACCAACTTAGTATATTTTTCAAGGAGAGCTAAACCACCTTTTGTAAATGTT
CGGTTTCTCACTGTTATCTTCTTTCTATAATTAATTTATTTAATCTA
CAAATTGACATAGGGCTAAAAGCTTCAATATTTTACAAAATATTAATTA
TGTAATTGTTCCCAATTATTAGAACTTTTTTCCATTTTCAAATGTTT
GCCAACTTACACAAGTGTGTAATAAGGGCTCTGGATTTTCAAAGCA
CATACATGAATAATTTATTAGCTATTCCAGGCAAGCTAAGTA

>342.1

GTGGCGGCGGAGGTACAGGTTTAGTCTGAATGCACTGTCATGAAATTTAA
ACTTTCATTATAATACTGTTTTAAGAACTTACAGCATCTGCTTTACAAAT
GGTGTAGCTACATGTGACACAGCATCTTTAGCCAGTTTTCTTTTGAA
GTTCACTGTATGTCTGGAAGTGAAGTACATTTGCTGCTCTGTT
GGTGGCCTCACAAGCAAGGCAAAAGCATTATGGCAATCTAGGGTTCCAGA
ATAACCATAAACATTAAGTGTCACTCCTTGGAAAATGACAGATGTATGCA
AGTTTAGTTCCTCAGAGCAATGAAATCCAATGAAATGAACATCACTT
CTCCACTTTCCTTGTCTATTTTAAAGACAAAGAACATCACCATATT
AAGTTGAAGT

>343.1

ACATCAGAGATGCTCACACATTCTTTGAGTAGTTTTAAAACTCATTTTAA
CCACTTTTTATTCTTTGTATTCAAACCAATCACTGGCAATAGCTCTAAGT
AGGTCATCAACTCTCCTCCATGTCTTCTTCTAATTCTGCCACAGACTCA
CTTCTTCCGTAAATTAATGGAAGGAAATGAGTGTCTGAGTTCTTAGAATC
TCAAAAGGCATGAGGATAAAGCTTTCCTGGAGATAATATAAGTGGTGGCA
GGAAGATTTGGGAGCCAGATGATACTCTTTTCTCTTAGAGAACTCTGT
GGAAGCTCTGCCTATACTGTGGGAAATAAATTCTAGACGCTGGCTTCTT
CTGTAGTAAACATGTGGGCCCTTTAAATGTTGAACCAAAATGTGCTTCA
AATATAGTTTAGTTATAAAACATTTATGGGGGAGTATGTATGTGCCAACT
ACAGAGGCTTCAGAGATGAAGAAACAGTTCTTACCCTAGTGTTGCTTAGA
ATCTAGTAGTAGTAAGTAATAATTAATAACATATGCATTTACTATATAGG
CAATACTAGGGTAAATATTTTACATAGATTACCTTATTTAGTAGCTCTTA
GCTGCTAAAAAAAAAAAA

>344.1

ACTTTTTTTTTTTTTTTTTTTTTTGTGGGAGTTAAATAAAATAAGCATG
TCTCCATTCTTTATTCCTAAACATTTACTTATGACAAATGTAACAACTGA
CAGAAATTTGAAAAATACCAGACACTTCTTAAATGATTTCCCTTGGTTCA
AAATTTACCCCTTCTTGTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT
CTTTTAGTTTGAACATATGCAGTGCAAGATTCTCTGTAGTCTTTCCAAG
TGGAAGGGTATAAAAAAAAAAACACTTTATATTATGCCAGGTGAGGTGTCA
GAACCCTGGCATCGGAAAGTGGTTGGCTCACGGGTCATAGGGTAGTAAGA
AGAATTTACAGAAGACAGTATAGGTTTCAAAA

>345.1

ACACTGCGGCGGGGGCAGAAAAGCTGCAAGGAACAGAACCAAGCAATGCAG
AAGCTCCTCGAAGGGCCACCATCATCCTGCAAAACACCAAGCAGGGCAGT
CTCTTAGCTGTGGCTCTTCTCAAGGATGTCTCAAGGGCTCCGGTGGTGC
TCTCCTGCTCTATCCGCTGCTGTGGCAAATCCTCTAAAAACAGCGTTTG
CACAGCAGAGAGCAAAGTCCGCTTGTATTCCACCCGATACGTGAGCTCA
GTTTGCCAGCTAGTGATCAAGTCCAGCTGTTGGCAAGTTGGTCCCTGAGG

Table 3

CCTTGTA GACTGACCTGTGGCAGAGAGCTCCCTGGGTCCAGCATCTGTTG
CCCTCACCCTTGACACATGCGGACCCTCCCCAGG
>346.1
TTGGAGCTCCACGCGGTGGCGGCCGGGGTACAAGAGATAGAAAGACCAGT
CCTTGCTGAAAGACAAGTCTGAATGCTCCACTTTTTCAATTCTCTCTCCA
TTCTTCAGTAAGTCAACTTCAATGTCGGATGGATGAAACCCAGACACATA
GCAATTGAGGAAATTTGACTTTCCATTCTCTGCTGGATGACGTGAGTAAA
CCTGAATCTTTGGAGTACCCATTCCCTTGATGTCTACAATATCACCTTTC
TTATAGATTGCGATATATGTGGCCAAAGGAACAACCTCCATGTTTTCTAAA
AGGCCTAGAGAACATATATCGGGTGCCTCTCTCTTTCCCTTTGTGTTG
TCATTTTGGCGAATTACTGGAAGATG
>347.1
ATCCCTTAATTTCTTTGCTGGAGCATTTTAAAGCAAATATCAGACATACC
CTTTCACGCCTCACACTTCAACATGCGGCTTGTTGAAATTCGTGCTCCAC
TCCAGCAACTGCTTCAATCGGAGTTCCATCCTCCGCCGCAGTATGCCCT
AACGCAGCGTTATC
>348.1
ACTTGACTGCTACAACCTTCAAATTCTTCTACTTACTCCCTCTTCTTCAG
CTTCACATCTGGGAAAACCTGATAGGGAAGCCTAGGTAGGCCTACCTTTGG
TGCCAGAGGGAAGCTCAATCCATGCAAGCCCCAGATAATATATGAGAACC
TCCCCAACCTTACCCTACACCCCTCACCTCCCAATCCAAGCCAGTCTCCT
TTCCCTGCTTCTCAAACCATGTTTGGACCTGCTTGGAAGCTCCCTCTGC
TCTCCCTAGAAAGCTTCATTATGTGAGTGATACATCTTTTCATATCTTCT
TGGTGTGTGTGTGTGGTATCATCAGCCTCAACATCTGAAGCAAATGTTGG
GTGGGGGGT
>349.1
CGCGGTGGCGGCCCGGAAGGAGGAGAGGTGCTGTGCTGTGTATGAAGAGGC
AGTGAAGACTCTGCCAACAGAGGCCATGTGGAAGTGTTACATCACCTTTT
GCTTGGAAGATTTACTAAGAAGTCAAATAGTGGGTTCTTAGAGGGAAG
AGGTTGGAAGAAACCATGACTGTATTCAGGAAGGCACATGAACTGAAGCT
TCTGTGAGAATGCCAATACAAGCAGTTGAGTGTTTCGTTGCTGTGTTATA
ACTTCTGAGGGAAGCTCTGGAAGTGGCAGTAGCTGGAAGTGAATTGTTT
AGAGACTCTGGGACAAATGTGGCAGCTGAAGCTGCAGGTGCTGATCGAGTC
AAAGAGCCCTGACATAGCCATGCTTTTTGAAGAAGCCTTTGTGCACCTGA
AACCCAGGTTTGTCTGCCATTGTGGATTTCCTGGGCAGAGTGGAGT
>350.1
GTGGCGGCCGCCCGGGCAGGTACCCGTGCTAAAGACTTTTTAGTTCGGGCTC
TCCCAGTGTTTTTTTTCGTTCGATTGGGCACAGAGTTTCTGGTTCACG
TGGATGTGAGGATCCTTACTCCAGATCGCCAGCCAGTTTTTGTTTTTT
TCCTGCGTTGCTGAGAGTCTGGGTTTATTCATCACACCAGGTGGATCTTA
ATTCCATATCCCTGAGGCCACTGCAATGAGGCAGAGGAGTGTGCTCCCTC
ATGAGAAAGGACTGGAGACCGCCCCAGAAGAGAACGTATCCATGT
>351.1
CGCGGTGGCGGCCGCCCGTGCTGGTCTTATTATTGCCCGTTGTTTCTGG
ATGTGAATGGATTACAATGTATTTTTTAGGGAAATCCTATTATTATCAA
TGTGACTCCACGGGGGAGTCCATGGTGATGATGATGAGGAGGAGGATGAT
GATGATGAGACACCTCTAACTTGAACAAGTTTAAGACTTTATGAGAGA
AGAAAAAATCACCAACAAGAATTGTTTGAGGAAAAATCATAACTATCC
TGTGTTTATTTTTTTTTTATAACAATAAGAAAAAGTTGTTGGATTTTT
TTTTAATGATTTCTTTTTTGGGGGAGGGAATTTGTTGCAGTTTTATGGT
GGAAATGCAAAAACAGAGCCAGGTGCATAATCTGTAATCTGTGGATA
TCCCTGGAGCAGGACTGATGT
>352.1
TGGTAACAACGCAGAGTCCCGGGAAGCAGTGGAACAACGCAGAGTCCCG
GGAAGCAGTGGAACAACGCAGAGTCCCGGGAAGCAGTGGAACAACGCA
GAGTCCAGGGAAGCAGTGGAACAACGCAGAGTACCCGGGAAAAAAGGC

Table 3

AAATAGAATGAGAACCATATTATGT

>353.1

CGCGGTGGCGGCCGAGGTACACCCAGCTTTGTCTCCTGGCCCCAAATCTC
CTTTTCCTTACTTTGGGCATTAACTGCTGTTGAGGTCTCACAGCCTGATG
GTCATTATCCCTGAATGGCATAAATCAACAGGCTGTATGAGCATTGTGTG
AGATTCTACATGAGGGAGAGCATTTCAAACCCATGACAGATGAGAGAAGT
TAGTACACTCTCACTGAACTGGGGATGTTTGACTTAAATGATGGACAAT
AAGATAGTGAGCAGTAAGTGTGCTCTAGGCTAGGCTACGAGAGGCCATGA
GCTCCTCATCTCTTCTGTCTGAGCTCTCTGATCCACCGCACTTGGGG
CAGGGGGTGCATTCTCTGTGCCTCTCCTGAGTCTACTTTCTGCATCATTG
GTTCTCCCAGCTCACTTCCATAATGTCCTCCTAGGCTGCATTGGAATTGT
GTGTTGTCTAGACCCATGGCCAACACTGTCATTGCCTGTGAGGGAG

>354.1

ACTTTTTTTTTTTTTTTTTTTTGCCTTTAGAAGGTTAAATGCCAATA
TAAAGCTAAACAGTAATCATCAGAGACAGCTCTAATAAGGCTTTGCTAC
TGTTTTTACTATATAAATCTTTACGTGTTAATGGAAAGAAAATTAATTCA
TTCTGTTACTCCATTTTTTTCTCTCCATATTGTATGCCTGAAGTGAGCTG
ATGAGGGGCGAGAAAGATCATACAGTTAGGAATGAAGACATCAGAATGTTG
CACTAAACAGATATTTAACTAGATACTATTATACTACTAAGAATAGCAAG
AATGTCTCTCAATTTCTGGGAATTTCTCCTAGCTCACACAAATGAAACGCA
CATCTCCATGAATGCTTTCTAATAAATGCTTCCAGGATAGTATCATAAAC
AAAGTCAAAATTAAGAAAAATCACCTCCATGGCATCCTGGTCAATTCTCCA
TCAGCTCACCTTTCTTCTATCAGAATCCACAACCTGCTTT

>355.1

TGAGCTCACCGGGGGCGGCCGAACCGCCATCTTCCAGAATTCGCCAAAAT
GACGAACACAAAGGGAAGGAGGAGGCACCCGATATATGTTCTCTAGGC
CTTTTAGAAAACATGGAGTTGGTCCTTTGGCCACATATATGCGAATCTAT
AAGAAAGGTGATAATGTAGACATCAAGGGAATGGGTACTCCAAAGATTCA
GGTTTACTCACGCCATCCAGCAGAGAATGGAAAGTCAAATTTCTGAATT
GCTATGTGCTGGGTTTCATCCATCCGACATTGAAGTTGACTTACTGAAG
AATGGAGAGAGAATTGAAAAAGTGGAGCATTGAGACTTGTCTTTCAGCAA
GGACTGGTCTTCTATCTCTTGT

>356.1

CGCGGTGGCGGCCGAGGTACCTGACTGTGGCTCAGATCTGCGTCGCAGCA
GCGAGAGAAGAAATCACTCCATATCCGATGAGAGGAAGGGTGGCACAGAG
ATGGTGTCTACAATTAGAGACATTTCTGACTCCACCTTAGCCTAAGCAAA
CTTTATGTACTGAGTAACATTTGAAGGTTGTCTTTAATGGTGGGGGGTG
TTTTTCTTTTTTAACTACAGTGCTTGACAAGAGAGGGGAGGACTCAG
AAAAGGTTAGGGCAGGTGAGGGAGACAGTAGATGGCCTGGGATGACTTGA
GTCCATCATACTATTGCTTGGCAGGTGTCTCCCCCATGTTTGATTCAA
TTCCATGAGTGACCTACCTTTCCCCAGGAATGGGACTGAGAGGGTAGTCT
TCCAGCAACTTAGTCTGCACAGGGCTCCCCGTTGAGGCTGCCTTTGGTGG
TTGTGCTTTTGTAAGTTTCTTCTCTGCACTTGCAGTTACCTTTGAATCA
GAAAGCAAGCCCAGCAGGTGAATG

>357.1

ACCATCTGACTTGGCAATGTAAGACACACACGTTAGTGTGGGGCACAAAC
GTGGAATATTAGGAGAGAGCTGGTTCCAGCACCAAAATCCAGAGTCACTCG
GGGAAGGAGGTATGGTGGCAACACTTTATGCTTAATATTCAATTCTGCTC
CAGTAGAACATGGTACCACCATTTCCAAGTTCAAAAATTATCTTTGAT
TCATTTTGTTCCTTCTCTAATATGTCACCAATTCTGCTGATACATT
CTTTGTAATCTCTCCATCTATTTAATCTGTTATTACCTGAGCTACACA
AACATTCTCTGCACAAGGAGTATTCCACGTGCTGAAAAGACAGAGGATT
AAGCCCTCCTTGTGGAGGCATTCACAGTCTGGTTTAAACACAAACCAA
CAATTATAATACAGGGATAAAAAAAGTAGAGGCACTTATTGCATACCT
GT

>358.1

Table 3

ACTTTTCTAGCAGTCTGTGGCCACTCCATACTCAGCTGAAAACACTGTTT
CAGCCCCCTCTCTGGTGACCTCAGCCTTCTCCAGGTGTATCTCTTGATGA
TCTTGGAGACCAGCAGCCACAGCTGCTGCTACTCCTGCAGGAGACTGTCA
GGCTGTGGTGGGGGGCAGGGGTGTTGGAGGAGAAGTTGAAAATCCGTGTG
TTCTCTGTCCCTCTGCTCCTCCATCTTAGCTTCTGGAGGAGTTAAGGCAC
CAAGGGCA
>359.1
GTGGCGGCCCGCCGGGCAGGTAAGTGGTGTGTGATCGGAACGTGTCGATC
CCCTCTTCTCATCACTGCTGCTCCAAGTGGATTATTACTCCGGGAATGG
TAGAGAATAAAGATTTGTAGGAAAGGTGCTGAACTGCCAAGGAAGGCATT
TCTTGTGCCGTGTCTGGAACCGTGTATCCTTACTACATCACTGAACGACA
CCAAGCACCCCATGCACTTCTGGGTCCAACCTTGGCCCCTGAAGAAAGAC
ACTG
>360.1
TGCAAACTAAACACGCCCCGAGGAAATTTGGCCAGTTATCCAATTGATGA
ACTAGTAGATAGAGCCAAACAATCTTTTCAAGAGGGTGTGTGTGAGATAT
GGTTGACCAAGTGAAGACACGGGGGCTTATGGCAGAGATATTGGCACCAAT
CTGCCCACACTCCTGTGGAACTGGTTGAAGCGATTCTGAGGGAGCAAT
GCTGAGGCTTGGCATGACAAATCCGCCCTATATTTAGAGCATCTGGAGG
AAATGGCAGAAATCCTTAATCACCCAGAGTCTACGCTTTTCTGCACATA
CCAGTCCAGTCTGCCTCCGACAGCGT
>361.1
TGAGCTACCGCGGTGGCGGCCGAGGTAAGTAAACCAAATAAAAAAGTGA
CATTTGAATTTCTTTTAAAGGATTTCCGAGCTCACAGTCAGCTTGCGAG
CCATTCTCCGCGTACCAGCACAAACCGGGCCAGCCTCCTAAACTGCTCA
TTTACTGGGCGTCTACCCGGGAATCC
>362.1
TGAGCTACCGCGGTGGCGGCCGAGGTACGTATGCACAGCCTCACACTCT
ATAAATGTATGTGTCTGAATTTAGAGCTTAATAATGAATTATGGAAC
TGATAATGATTGGATCAGGCAGACAACACCTGATCAGTCCTAATATCAGA
AAAGAGACAAGTAGACATTATGTGCTTCCTGAGGTGAGGCAGTAGTAAGG
AAACAACATCACACATGTAGCAGTCTTGGGAAAAAATGTAACCTGTAT
CTCGTAATGAGGAAACAATCAGTAAAAAAGTCTAGATTGTGGGACATTCC
ACAACTTGCTGAACCTTTAATAATGTCAAGTGTATGAAAGACACACC
ACACACACACACTGCACATCATACACAAACACCACCCACCACCCACCAC
TCAGACACACACAAAAGGGCAACTCTAATCAATTAAGGAAACAAAAGAG
AATGACAACATACATATAACGTATAATTCTTGATTGGATCCTGGATTTAA
AATAAACAGCTATAAAGGATAT
>363.1
CTCCCCGCGGTGGCGGCCGAGGTAAGTAAACCAAATAAAAAAGTGACATT
TGAATTTCTTTTAAAGGATTTCCGAGCTCACAGTCAGCTTGCGAGCCAT
TCTCCGCGTACCAGCACAAACCGGGCCAGCCTCCTAAACTGCTCATTTA
CTGGGCGTCTACCCGGGAATCC
>364.1
CGGGTGGCGGCCGGGTCAACGCAGAGTCCCGGGAAGCAGTGGTAACAACG
CAGAGTCCCGGGAAGCAGTGGTAACAACGCAGAGTCCCGGGAAGCAGTGG
TAACAACGCAGAGTCCCGGGAAGCAGTGGTAACAACGCAGAGGCTTTTCA
CACAGCCCAGGGTGCCCGGGACTGAAAACCTCTTACCAGCCCCCTCCAC
AGGATATAGAAGACTTAGATCACTACGAGATGAAAGCAGAGCCCATAGT
GGGAAAAAGTTGGAGGATGAAGGAATTGAAAAAAAAAAAAAAAAAAGG
TT
>365.1
ACCAAGCACTGGGTAAGGCACCTTTTGTGGAGCATTAGACAGTAACCCTCA
AGGAGCTAGAGAACCGGATGGGAGACATGAGCGGTAATTAACCTCACTTGT
TCCCCAGAGTTTCTATTTGTTTTGTTTTCTTTTCTGTGACTTATTTTCC
TATTTTCTTCTCCATGTAATTTTCACTATGGCCCACTAATATAAACA

Table 3

CCTGGAAATTACAAGGAAAAAAATTCTTCCTCTAATAACTTTCCAAATT
TGTGGAAATTTATTTGTAATAGCAGTTATCAGTTATGCTTATATAGCAT
TAAAAATTCTCCTCCTTTGACTACACACACAACCACAGTGTGGTTCTAAT
CATGGAGATATCAGTAATTTTTAGTAACTGAATTTTGAGGACATTTCTCT
GTTTAGCATGTATGCAAAGTATGTAATCCGGGGTTCCAAAG
>366.1
TGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTGCATCCTTCAACCCAATC
AAGCTGACACTCAGTATTAACCATCACAAAGCGTGAGGACAGATAGCTGC
ATCCGCAAAATAGAGAACCAAGAAATAGTCCCACACCAAGTCAGGATCA
AATGATTCCTGGACAAGCCAC
>366.2
TGAACCCCCCTCCGTCAACACACACAAACGTTAATTTGAGATGGATTGCA
AACATAAAAGCTAAAACCATTAACACTTCTTGAAGGTAACATAGAATATT
TTGTAATGTTATGATAGGCCAAAAGTCTCTT
>367.1
ACCGCGGTGGCGGCCGAGGTACATTGAGATTCAAGAGAAAAGTCACAGCA
GGTCTGAGCTCCTCCAGCAGGCCTTATGTAATGCTAAGATTTTGGGGAA
GATGAAGTTGAACTGATGAACTGGCTGAATGAAGTGCATGACAACCTGAGC
AAGCTCTCAGTCCAGGATTACAGCACTGAGGGGGCTATGGAAGCAGCAGTC
TGAACCTTCGGGTTCTGCAAGAGGACATCTTACTCAGGAAACAAAATGTAG
ATCAGGCTTTACTAAATGGTTTGAAGTAACTTAAACAAACCAAGGTGAT
GAAGTTTAAATAATTCAAGATAAATTGGAAGCCATTAAAGCAAGGTACTG
CCAGATACGAATTGAGCATACCACAAAAAGTTCTCATTTTGTGTCTCC
CATCCCATTCTCCTCACTAACCAAAAGGCTAGGAATTATCT
>368.1
CAATGTGCCAGGCACCTTACAAGACACAAATATGCTCTTATAGGCTGGGG
AAATAAGAAAATATGAATGAAGCAACCCAGGTCTTGAGCCAAAGAATTAC
CTGGGGTCCGTTGAGTTCAAATCTGAAAATTTCTGTCTTTCAAGGTCAGC
ATCGCCACAAAC
>369.1
ACGCGGGGGTTTCCGGTTTGGGTGTGGCCGCATGGCGTGCTGGGGTGCAG
GTGGCCGAAGGGGGCGTTACTGTTGCGACTGGCATCCGCATCCGGCAGAT
GTAGATGGAAACCAAGCCAGAAGTTACGCGTCACCCCTTGCTCTACAGCCA
AACATGCAGGACTCTAGTAACCCGCGAAATGATGGGATAGCGTTGCAAAAT
CCTTAAAGAGTCTTAACGGAGAAGGAAAAATGTTACATTGTCAAAGTCC
CAAAGCCTTTGAGCCTGAAGCCAGGAACAATTGTTCAAAGTTTCTTTGGA
ACATCAAGGAAGGAAATCCAGATTTTACTTTAAGTGCAATGGGGAGTCAT
TAAGGATTTTGTGTAGATACAGCAAAAAGACAACAATCTTCAAGCCACAA
TGGCCCTCACCAGAACCCAGCCATGTGGTCAGCCTGATCTCGGACTTCAC
AGCCAGCAGAAGTGTGAGAATTAAATC
>370.1
GTGGCGGCCGAGGTACTTAAAACCAAATAAAAAGTGACATTTGAATTTCT
TTTAAAGGATTTCCGAGCTCACAGTCAGCTTGCGAGCCATTCTCCCGCG
TACCAGCAGAAACAGGACAGCCTCCTAAGCTGCTCATTTACTGGGCATC
TACCCGGGAATCC
>371.1
ACGATTATTTTAAACAAGCCTACGTCCCTGACTAACCGAGTGGAAGGTGT
GAGTGGCACTACAAATTCACAAAAGAACTGTAGCCTCAGATAATCAAAGG
AGAGAAGGTCAGATGCAATCACTGATGCATGCTAGTAATTCTAAACCTT
CGTTTTTCAGAAACGATTGGATTTTCAGATAGATTTGCAGTAAGAGAATAA
CAAGTCTTTATTTTTTTCATCCCAACTTCTTTCTTGACATTTTCTTCT
AGCTATATTTAATATCTGTTCTCCCCACACACTTGCTAATCTACATTTCA
CAATCTTTTCCACTTCACTTTGTCTGCA
>371.2
AGAAATCTACCTGGACAGAATAGCATCTTTTTTTTTCCCCCTGACCCTTG
GCATTTCTCTTCTCCAACCTTCTGCCTGATCCTAGGATGGAC

Table 3

>372.1
ACGCGGGGATGTCTCTTGTCTGCTGCTTTTCTGAGAACCTGGTGGGGCAA
GTCCGTGGGCATCATGTTGACCGAGCTGGAGAAAGCCTTGAAGTCTATCA
TCGACGTCTACCACAAGTACAAGAGATAGAAAGACCAGTCCTTGCTGAAA
GACAAGTCTGAATGCTCCACTTTTTCAATTCTCTCTCCATTCTTCAGTAA
GTCAACTTCAATGTCGGATGGATGAAACCCAGACACATAGCAATTCAGGA
AATTTGACTTTCCATTCTCTGCTGGATGACGTGAGTAAACCTGAATCTTT
GGAGT

>373.1
ACGCGGGGAGAAGGAATGGAAGCCTGGAGAAAGAGGATGAAATGACGGA
TGAAGCAGTTGGAGACTCTGCTGAGAAGCCTCCTTCTACTTTTGCCTCAC
CTGAGACTGCTCCAGAAGTGGAGACCAGCAGAACTCCACCAGCCTGTGAA
ACCACGAACCCCTTCAATCAAGAAAAGACCTTTGATCAGGAGAAGACTTCT
CGTCTCATTTCTGGGGACACATTCAGGATTTCTCAAAGCAGGTGAAGGT

>374.1
GGGTGGCGGCCGAGGTACGCGCCAGTCACTAGCAGGTCTTGTGAATCTC
CTCAGCGAGGCACCTTGCAGAGTAAATGGGCAGATGGAAGGAGATGGCAA
GGACCAATCTGGGGCCGAGCAGGAACAAAAGCAGCAACGCTAACGGAAAA
GGCCCGCGCCGGCTGGTGGGCCAGACAAACCAGACATGGTGCTCCCCGC
GTACTCCTTATACCTTATTAAACACAAAATTAATTGTAAATAGCCTCAGG
CAGGTCTTCAGGAGGTATCCAGAAGAAGGCATTGTGATCATAGGAGCTG
ATGGCTCCGCCTGGGTTACTGCCCTGTAGACTTCCAGTGGGACAGGATA
TGGAGGTGGAAGACAGTGACATGGATGATCCGGACC

>375.1
CGGGTGGCGGCCGAGGTACCTCAGCTGTTGATCTGTGGAGCCTAGGAATC
ATTTTACTGGAAATGTTCTCAGGAATGAACTGAAACATACAGTCAGATC
TCAGGAATGGAAGGCAACAGTTCTGCTATTATTGATCAGATATTTGCCA
GTAAAGCAGTGGTGAATGCCGCAATTCAGCCTATCACCTAAGAGACCTT
ATCAAAGCATGCTTCATGATGATCCAAGCAGAAGAATTCCTGCTGAAAT
GGCATTGTGCAGCCCATTTAGCATTCTTTTGGCCCTCATATTGAAG
ATCTGGTCATGCTTCCCACTCCAGTGCTAAGACTGCTGAATGTGCTGGAT
GATGATTATCTTGAGAATGAAGAGGAATATGAAGATTGTTGTAGAAGATG
TAAAGAGGGAGTGTCAAAAATATGGACCAGGGGTATCTCTACTTGGTCC
AAAGGAAAATCCTGGCAGAG

>376.1
CAGGTACAGGTCTCGAAAAAGCGGGTGGTGAATGCTCCATGGGGATGA
GGGGAGCACGCAGTGGAGCCAGCTCGGTGTGGGAGAGGTACCTCTAAGGT
GTTCTTCTACCTAGCCTAGTTTTTTTCTACCAACCTAGTTCACCTAGTT
TCCTGCCTAACCTCGTTAGATATCACTCTTCGCTGCTTCAAGAACTAA
AGCAACACTCCTGATATTAACCTACTACTCAGTTTTGTGTGGCAAAACAG
AGATCACATCCCATTGTCTTTGTGTCTCTGGCTGTTAGCACAAAGTTTA
GCACTTAATTCATGCTCTACAATGTTAGTTGAATAGGTGAGTGACAGAAT
TTGTTATTCTTAAACCATTACTGTTTGTAGTGAG

>377.1
TGAGCTCACCGCGGTGGCGGCCGGACGGAGGAGAGGTGCTGTGCTGTGTA
TGAAGAGGCAGTGAAGACTCTGCCAACAGAGGCCATGTGGAAGTGTTACA
TCACCTTTTGTCTGGAAAGATTTACTAAGAAGTCAAATAGTGGGTTCTT
AGAGGGAAGAGGTTGGAAAGAACCATGACTGTATTAGGAAGGCACATGA
ACTGAAGCTTCTGTCAGAATGCCAATACAAGCAGTTGAGTGTTTCGTTGC
TGTGTTATAACTTCTGAGGGAAGCTCTGGAAGTGGCAGTAGC

>378.1
CGCCCGGGCAGGTACCAGGTGGTGAACCAACTGCTGAACGCACAGCCTA
CCTCCTGTATTACCGCCGAGTGGACCTGCTGTAAACCCTGTGTGCGCTGT
GTGTGCGCCAGTGCCCGCTTTGTAGGACACCACCTTACACTCACTCCC
GCCTCTCTTGTAGTGGCTCTTGTAGAGAGAACTCTTCTCCCTTTGCAAAA
ATGGGGCTTAGAATTGAAACAGGAGTATCGCCTTGTGGGTTTCGATGCA

Table 3

ACAAACACGAGCTTTCTTGTTGACTTCTAACTTTTCAAATCAAATCATT
TGGTTGAAACAGACTGTTGCTTGATTTTAGAAAATACACAAAAACCCATA
TTTCTGAAATAATGCTGATTCTGAGATAAGAAAGTGGATTTGATCCCCA
GTCTCATTGCTTAGTAGAATAAATCCTGCACCAGCAACAACACTTGTA
TTTGTAATAATGAATTTTAATTTTCTTTAAAAAGAAATTTT
>379.1
AGCCAGCCAATAAAATATAAACTCCATTTGTCTTAGTTATATAGAACTGT
GTTTCCAGCTTAGAAAAAGTCAAACCAATGACTTGTAAGAACAATCTACTC
TCATTTTTTATTGAGCTCTAGAACATGGAAGCTTTAAAAGTGAATTGGC
TAAATAGGCAAGACCTTCTGAAAGTTAACATCTTAATGATTAACAAACAGT
AAGTACGCACAACCGAAGCGTAGAGTCACACTTGCAACAAAAGGTTACAA
TATTGTAATGGGCTCTGTCCGGTCTGCTTGTCAGCTGGACCATCTATT
TCATCCTCCTCCTCTGAGCTGTCATTTAATTGCTCATAACAGTAGAGATC
AGTTGTCTCTGGTTGCAAATCTAACATATATTTATGCAATGTAGGGTGT
CTCCATGCATGATTACAGCTGGGTTTCTCTACGTGTTCTTGATGATCTGC
AACAAGACATACCTCGACCGGGCCACCGGCCCTTATATTATGGAATCTT
TGCTTTTGGCCAGAGGTCTTTGCTTT
>380.1
GAGGTACGTTAGCTCATTTTCCCTTAAGCGGGTGTGACGTCGTTGAAAT
TGCAACGCTCAAACCTTCCAACACTTGGTATACACTTGTAACCCAGCTTTG
TTAATGAGACACGCATCAAATCAGATGAACAATTGACGGCTGTTTGCA
GTCAGCAGTTGGGTTAGGACAGTTGTAGCACTGCAGGCTATGTCCTGAAT
G
>381.1
CTCACCGCGGTGGCGGCCGAGGTACACCATGTGAAGACTGGACTTAAACA
GCTACACCACCAGATGCCGAGAGAGGCTGGAACATAGCCTTCCCTTTG
GAGGTAGCCTGGCCCGGTGGGCACTGTGATCTCAGACTTCCAGCCTCAG
AACTGTGAGACAATATTTATTGTTAAGCCACTTATTTTTTGGT
>382.1
ACTACATGAGTAATTGCATAAATGGACGATGTCTTCTCTACTTTTAAT
TTCCAATGACT
>383.1
CACGGCTCTCCATTCTTCTTCTTGGCTTTACAGGTTCCCAGGTCAAGAGC
TTCACCCATAATTAAGAGCTTCTGAGGATGATCGATAAATAAACACACCT
CCTCTTAACCATCCTTGGGCT
>384.1
GACTGCAGGAGATGTGGGCCGTGCCAAAGAGATGGATGAGACTGTTGCTG
AGTTCATCAAGAGGACCATCTTGAAAATCCCCATGAATGAACTGACAACA
ATCCTGAAGGCCTGGGATTTTTGTCTGAAAATCAACTGCAGACTGTAAA
TTTCCGACAGAGAAAGGAATCTGTAGTTGAGCACTTGATCCATCTGTGTG
AGGAAAAGCGTGCAAGTATCAGTGATGCTGCCCTGTTAGACATCATTTAT
ATGCAATTTATCAGCACCAGAAAGTTTGGGATGTTTTTCAGATGAGTAA
AGGACCAGGTGAAGATGTTGACCTTTTTGATATGAAACAATTTAAAAAT
CGTTCAAGAAAATTCTTCAGAGAGCATTAAAAATGTGACAGTCAGCTTC
AGAGAACTGAGGAGAATGC
>385.1
GAGGTACTCCGTCTCAGAGGAGGGATGCAAATCTTCGTGAAGACACTCAC
TGGCAAGACCATCACCTTGAGGTGAGCCAGTGACACTATCGAGAACG
TCAAAGCAAAGATCCAAGACAAGGAAGGCATTCTCCTGACCAGCAGAGG
TTGATCTTTGCCGGAAGCAGCTGGAAGATGGGCGCACCTGTCTGACTA
CAACATCCAGAAAGAGTCTACCCTGCACCTGGTGCTCCGTCTCAGAGGTG
GGATGCAGATCTTTGTGAAGACCCTGACTGGTAAGA
>386.1
TCGCCCCGGCAGGTACTCCCTGATAAAGGGGAATTTCCATGCCGTCTACA
GGGATGACCTGAAGAAATTGCTAGAGACCGAGTGCTCCTCAGTATATCAGG
AAAAAGGGTGCAGACGTCTGGTTCAAAGAGTTGGATATCAACACTGATGG

Table 3

TGCAGTTAACTTCAGGAGTCCTCATTCTGGTGATAAAGATGGGCCGTGGC
AGCCCACAAAAAAGCCATGAAGAAAGCCACAAAGAGTAGCTGAGTTACT
GGGCCCAGAGGCTGGGCCCTGGACATGTACTCTCAGAATGTTTGTCTATA
TGCTTCTTGCAATGCATATTTTTTAATCTCAAACGTTTCAATAAAACCAT
TTTTCAGATATAAAGAGAATTACTTCAAAT
>386.2
GAGTAATTCAGAAAAAAGCTCAAGAATTTAAGTTAAAAAGTGGTTTGGACT
TGGAACAGGACTTTTATACCTCTTTTACTGTAACAAGTACCTCGGCCCG
CTCTAGAACTAGTG
>389.1
GATGCTGTTCCCCATTTCTCCACTAAAACGCCTGCTTTTCTTAACTCCAC
ACCGAACCAACCTGAAATATTTTGGCCCAGAATGCCAACAAGATTGAAG
AAAAGATGCTTTTACAAAAATAACAATATAAAAGCAAATTATATTATCCCT
TTTATCTCCATTCTTACATTAATAAAAAAAAAAAAA
>391.1
CCGAGGTACGCGGGATGGGATTTCTGACCATTGCCCCTGCCTCTTGCAAA
ATAGGTCTAATGGCAGGATGGTGTCATAATTAAGGCTACCAAGACTGCCC
ATTGTTCCAGGCTGGGCAGTTCATAATGGGGGCAGACAATAGTGCAAAAA
AATTTTACATTTTATCTTTAGAGTGTCAGGGTCAAATTGATTTCCATGGT
TGAGGATGTAGCCAAAGTGGAATCAGGTGGAATAGGTGGAGAGTTGCCC
ATAGTGGTTTGAAAAGAGAAGAGGACTTTGAAAAGTGGAGGGCTCATT
GGTGACCCAAATTTTACCTGGGGCATCCCCCTTTAGGGCCCCAACTTAG
TCTGTCTAGACATCTCTGACCTTAGATGGGTGCTGGCACCCTTTGGAATG
GTTCCCTCCATCACTGAGGACCTGACTTAAAGTTTTTCTATCTCACTTAA
AACAACCCCTTAAACGCTCTCACTTAGGCAATAATAAATTCCTTTTCATG
AATCCCTTACCACCATGCACCACACAGACCACATGCCCG
>392.1
AGCGCGGGGAGAGGCCGGTTTGCAGTATTGGGCGCTCTTCCGCTTTCCTC
GCTCACTTGACTCGCTGCGCTCGGGTCGTTCCGGCCTGCCGGCCGAG
>392.2
ATTCAGCTTCACTCAAAAGGGCGGTAATTACCGGTTTATTCCACCAGGAA
TCAAGG
>392.3
AACCCGTTAAAAAAGGCCCGCGTTGCTTGGCGGTTTTTTCCATAAGGGCT
CC
>393.1
ACAGGACACAGGCACTCCTTTGTCTGGTAGAGAGGAGGAGGGGAAATGGA
GCTATTCCAGGATACAAGGGATGGCACTGAGGGATGCATAAGTCCCCTGC
CTCCCTTGTCTCAACATGTTCTCCTCTGCCAGCCAGTCAGCTTGGGGAG
CTAGGTATCAGAAACCTGAAGGATCCAGCCCGCTTTGTCTACTAGTGTC
TATAAGTCTCTGTCTGAGATCCTGGGGCTCCTCTATTTCTAGAAGGGA
TGAGGTGCCATCAAAAAATACTTGGCTGGTGTAAACAGTTTAGAGAAGGAA
GTCACACCTGTAGCCTGGCTGGCAGGCAGGTGGACATGAGGCTGAGAAGG
GAAGCCAGATGTCAGAACATACTAGGCTAGCATGCCTGCT
>394.1
TGGCGGCCGAGGTACCAGGCTGGCGACAGGTGCTACCAGGAGTGGGCTGA
GGGGAGAAAAACTATCTCCCACTCTTTTGGCCCAGGCAATGTCAACGACT
TCCACATTCCCTGGCCCACTGGCTGAGCAACCCCAAGGTTCCGGCTCTGTAT
AAGGACCCTCCCCTCCCAACCCCAACCCAGAGTGCAGTGCAAAATCAACCA
ACAATTTACTGGTGGAAATGGCAATCAAAGGAAACAGTTAAACACCAAACA
ATTTCTTAAAGCCAAAAATATTTTTCATGGAGTTGAACATTTTTCGAGT
GTGTTTTTTTCAAGTGTAAGGAGTGACATTTTGTTCAAACAGAAGCAG
CATCTAGGAATTTCTGGCACTTGGGTTCTAGGGGTTACAGGTATGCATCA
TGGATTCTTCTCCCTCGTATTTAAAAAGA
>395.1
ATCTTAATTTATTTAAAGCCATAGATTCAAGTTTAGCTTTAACCTAGACAG

Table 3

AAAGTGAAAAGCATTTTACAAGTAGAAGAGGCAATGAGAAATAAGGCAAC
AGATAATACGTCAAAGCTGGAACAAGGGCAGAATCAGAACGTGTCTGGCT
ATCAGCTTTGTTTTGACTACTAAGGCCAACCTTTTTATTCTCTGGATG
GTCTGCAGACCAAGTTCAGAATTTAGGCAAAAGGATTTCCAAATGGATCC
CTATACATTTTCAGAAGATTCAGGTTGAGGAAGAAGCCACAGAGGGCTTG
TGATGAACCCAAAGGAATCTTTAAAGAAA
>396.1
TGGCGGCCGAGTACCGCGGGAGCTTCTCCTTGCCAGTTTTTCCCAGCAGG
ACCTCTTCTTGTTTTGAAAGATGGTCGGCTGCTTTTGGTAGGCACGCTC
AGTCTGAATGTCCGCCATCTTCC
>397.1
ACCTCTTCTTGTTTTGAAAGATGGTCGGCTGCTTTTGGTAGGCACGCTC
AGTCTGAATGTCCGCCATGTGTCC
>398.1
CTCACCGGGCGGCGGCGGAGGTACAAAATTTAGAGGTTTCCCCTTTATCA
ACAAGAGACCCAGGTGCCAGCATGTTACTACCAGATCCAGTTCTTCTTAG
GACAGTGTGGCTCAAAGGGATGAGACCTTCCAGACACTGGTATCTGAGCA
TCTGGGCCTGCCCCTGAGTTGTCAAGAAATTTCTTATCTCTGAAGGAGTC
CAGACAGGAATGCTTCCACTGCTGGGTGGGTGCTCGCCCCCTTGTCTCT
TAAGCGCCCGGCTCACCCCTTGTAGCACAGGGTGTCTTACACAGTTTA
TGGGACTTTTCTGTGAACCTACCTGAGGGCAAGAACCATGTCCACTCCCT
GCTTGCTCTCAAATATTTTATAGGAAAGCAGTCCACAGTCTCACACAGA
GGAAACATGAAGTTTAAAGTTCTAGCCCTATG
>399.1
GCCGAGTACTCGGGGAGAGAGGAAAAAGAACACAGATCTCGCATGGTTCAG
ATTTTTCTTTTAGGTCCAGGAGTAAGATATATCATACGAAAATGAAAAT
TATAATTCTTCTTGATTCTGGGAGCCACATTGTCAGCCCCACTTATCC
CACAGCGTCTCATGTCTGCCAGCAATAGCAATGAGTTACTTCTTAATCTT
AATAATGGTCAACTTTTGCCACTACAACTTCAGGGCCCCACTTAATTCATG
GATTCCACCTTTCTCTGGAATTTTACAACAGCAGCAGCAGGCTCAAATTC
CAGGACTCTCCCAGTTCTCTTTATCAGCTCTAGACCAGTTTGTCTGGACTG
CTCCCAAATCAGATACCCTTAACAGGAGAGGCCAGTTTTGCCCAAAGGAG
C
>400.1
GTACAGACAGTGCTTGATGTTTCATAAAAAATACAATGCCCTGGTAATGTC
TGCATTCAACAATGACGCTGGCTTTGTGGCTGCTCTTGATAAGGCTTGTG
GTCGCTTCATAAACAACAACGCGTTACCAAGATGGCCCAATCATCCAGT
AAATCCCCTGAGTTGCTGGCTCGATACTGTGACTCCTTGTGAAGAAAAG
TTCCAAGAACCCAGAGGAGGCAAGTACAAGACACACTCAATCAAGTGA
TGGTTGTCTTCAAGTACCTGCCCCGGGCGGTGAGCGGCCCGCCGGGCAGG
TACGCGGGGGCTAACCAGGCCAGTGACAGAAATGGATTGAAATACCAGT
GTGTGAAGCTGAATGATGGTCACTTCATGCCTGTCTGGGATTTGGCACC
TATGCGCCTGCAGAGGTTCTAAAAGTAAAGCTCTAGAGGCCGTCAAATT
GGCAATAG
>401.1
GCGGCCGGTTGACCTTGTATGTCACGAGCAATTAGGAGAGTCAGAGGATG
AAATAGATGAACCCGACCATGCAGTTAATCACCAACATCAACTACTAGCC
AGACGGGATGAACCACAGCGTCACACAATACAGTGTTCTGTTGTAAGTG
TAACAACACACTGCAGCTGGTAGTAGAAGCCTCACGGGATACTCTGCGAC
AACTACAGCAGCTGTTTATGGACTCACTAGGATTTGTGTGTCGGTGT
GCAACTGCAAACAGTAACCTGCTATGGC
>401.2
TATTGAAAACCTTACTTTTTTCAATGAGCATTTTTGCATCAAGGGGTAA
CAGGGACATTAGGCTTTTTT
>402.1
ACACATATCCTCTGTGGGAAAAACTGCTCTCAGAGTGTGCACTCTCCCA

Table 3

CAAGCCAGCGCTCAAACCTGGAAAAAGTATCTCAATGTCCTGAATGTGGGA
AAACCTTTAGCCGAAGTCTTATCTTGTTGCGCATCAAAGAATCCACACA
GGCGAGAAGCCTCACAAGTGCAGTGAAGTGCAGGGAAGGGCTTTAGTGAGCG
CTCCAACCTCACTGCCCACCTACGAACCTCACACAGGGGAGAGGCCCTATC
AGTGTGGGCAATGTGGGAAAAGCTTCAACCAGAGTTCCAGCCTCATTGTC
CACCAGAGGACCCATACCGGGGAAAAGCCTTACCAGTGCATTGTCTGTG
AAAGAGATTCAACAACAGTTCACAGTTCAGTGCTCACC GGCG
>403.1
TTGGAGCTCCACGCGGTGGCGGCCGAGGTACCAAATTAAGTATTAATG
AGGATTGAACTGGGGCAAACAGGTTATTGTGAAAACAGTCAATATGTAAG
CTCCTTCAAGGGAAATCAACTACTGTTCTCAAGATTAGAAGATGTCCAC
ACTCTTTGCATTACCTCCCTAAAGGAGGAAAACACCCATTAATTTCCCTT
ATGGAATCAATATGGAGTGGAATATGAAATGAGGAGATGTTTTAGAAAAG
CAGGACATATCTACCTACCATTACTGGAATTAATATGATCCTCTGGGCC
CACTCCATTGATTCCGATCTGAGGTGAGGAGGACTAAAAGCAGCAGCAGG
TTACAGAAAGACTGAATAAGATGAAAGTATGCTACGTATGTCTAGCTGGG
GAAGGGGGGATCTGGAAAAAA
>404.1
CCGCCCCGGCAGGTACGGACGCCCAGGGATCCGCGCCGAAGCTAGCACGC
AGCCTACCCAACAGTCTACACAGCCGACCAAAGCCCCCGCTACCCAGAG
GAGTCGCTGGTGAGTGGGAGCTCAACCCTGTTCAAGTGTCTGCTCATCAA
GTGTCTGGAGAAGGAGGTTGCGGCATTGTGCAGATACACACCCCGCAGGA
ACATCCCTCCTTATTTTGTGGCTTTGGTGCCACAGGAAGAAGAGTTGGAT
GACCAGAAA
>405.1
GCGGTGGCGGCCGAGGTACGCGGGGGGCGGCGGCGGAGAGAGCTGGCTCA
GGGCGTCCGCTAGGCTCGGACGACCTGCTGAGCCTCCCAAACCGCTTCCA
TAAGGCTTTGCCCTTCCAACCTCAGCTACAGTGTAGCTAAGTTTGAAA
GAAGGAAAAAAGAAAATCCCTGGGCCCTTTTCTTTTGTCTTTGCCAAA
GTCGTGCTGTAGTCTTTTGGCCAAGGCTGTTGTGTTTTAGAGGTGCT
ATCTCCAGTTCCTTGCACTCCTGTTAACAAGCACCTCAGCGAGAGCAGCA
GCAGCGATAGCAGCCGAGAGAGCCAGCGGGGTGCGCTAGTGTCTATGAC
CAGGGCGGGAGATCACAACCGCCAGAGAGGATGCTGTGGATCCTTGGCCG
ACTACCTGACCTCTGCAAAATTCCTTCTCTACCTTGGTCATTCTCTCTCT
ACTTGGGGAGATCGGATGTGGCACTTTGCGGTGTCT
>406.1
CGCGGTGGCGGCCGAGGTACAGTTCACAGTGCTTGATGATAATAAATGGT
TATTTTACTGGTTCATGTATTTACTATATCATACTTTTTTTCATTAGAGT
GTGCTCCTTCTACTTATGTAAAAAAGTTACCTCAGGGAGGTCCCTCC
TGAGGTCTTCCAGCACACGGCATTGTTATCATAGAAAATGACAGCTCCAT
GTGTGTTACTGGCCATTACCACCTTCCAGTGCGGAAGGATGTGGAGGTGGA
AAGCATACTGATGATTTTGTCCCGTGGAGGCCTAAGCTAATGTGTGTGT
TTGTGCTTAGC
>407.1
GCGGCCGGTGTGCTCATCGTAGCCTCGGGTGGGGGATGCGTCTCCGCTT
TAGCGCCAAGATAGAATTCCTCAGACCACCGCCGCCGCCCCCGCT
>408.1
GTACCTCCACTGGCTGAAGTCTCTACATAGCTCTCAGGAACCTTCGAAA
GGCATCCAACCTTTTTACCAAACCTTAAAGTTTTTTTCCGATTCAGTCGCC
TCATCTTCAGGAAAACCTTCTCTCTTCTCATATAGTCATGCTTGTTA
TGGTCCCAGCCTACCGCCATGTTTTACAGAAGCCCGGGTGC CGGGGCTC
CCGCGTACCTGCCCGGGGCGCGCTCGAGGCAGGTAATGACACATT
ACCTCCACACTCTCCCGACTAGGTGGTCAACAGGGCCACAGGGTTGCTT
TCTGTCTTGGTGCGGAGGGAGTTGACAGGGATGAGGGTCCAAGGAAT
TAGCATGAATGACAAGATAACAAGGGAAAAGAGTTAACCTGTACATAGT
AGGTTAACTTTTTTTCAGGGTTT

Table 3

>409.1

TTTTTATTTTGCTTTTTTTTCGCGGGAGTTAAATAAAATAAGCATGTCT
TCATCCTTTATTCCTAAACATTTACTTATGACAAATGTAACGACTGACAG
AAATTTGAAAAATACCAGACACTTCTTAAATGATTTCCCTTGGTTCAAAA
TTTACCCCTTCTTGTTTTCTCTTGCTTTTCAGGTAATTAACCTCTTCTCTT
TTTAGTTTGAACATATGCAGTGCAAGATTCCTCTGTAGTCTTTCCAAGTGG
ACGGGTATTAATAAAAAAACACTTTATATTATGCCAGGTGAGGTGTCAGAA
CCCTGGCTTCGGAAAGTGGTTGGCTCACCCCGCG

>410.1

GGGCAGGTAAGTGTGCAGTAGTAACCATAATTCTAAATGAGGATTATGGAT
TTTTCTGGAAGATTCTTTTTTCTGTGGAACATGATGAGAAATGTTTAGG
AGAGGGGACATAGCCATTTTGTATGAAGACCAATTC

>410.2

CACACTCACACACGCATGCACACATGCACGCACAACCTCACTCTATATTT
ATTCT

>411.1

CCTTGAGCAGATGCTGTATTATGGGGATAAGCCACACACTTTCTGAACTG
GCCCCGTGAGGGGGGACATAACCATTTCTGTGCCACCCCATCAGTACCC
ACCTATTGTGAGCGAAGGCTCCTCCCTGCTTGAGTAATGGCCACAGATC
TTGGCTCGGCACTCCTAAGCTGCATGATGAATTCCTGGGACAACAAGACT
GGCTCGTGGTTCCATTCTCCAGATCCTTGGGTTGGCTTCTGGGTGCACTA
GGAGATCTGAAATGCTCTCAGGCCACCAGGAAAGTACTGGAAGTAAAGTC
TGACTCTAAAGAAGATGAAAATCTAGTAATTAATGAAGTCATAAATTCTC
CCAAAGGGAAAAACGCAAGGTAGAACATCAGACAGCTTGTGCTTGTAGT
TCCTAACACGCAAGGATCTGAAAAGTGTCTCAGAAGACTACTAGAAGA
GACGAAACGAAACCTGTGCCTCGAGCG

>412.1

GCCGGCAGGTAAGTGTGCTGTTTCAAGTATGTTCTAAGCACAGAAGTTTCTA
AATGGGGCCAAAATTCAGACTTGAGTATGTTCTTTG

>412.2

GTGAATTTTGGCACAAGGAGTGACAACTTATAGTTAAAGCTGAATAA
CTTCAGTGTGGTATAAACGTGGTTTTTAGGCTATGTTTGTGATTGCTGA
AAAGAATTCTAGTTTACCTCAAATCCTTCTCTTTCCCAAATTAAGTGC
CTGGCCAGCTGTCATAAATFACATATTCCTTTTGGTTTTTTAA

>413.1

GGTACCTAGTCTATATGAGTTTGATGCTTACAGTCAAGGCTATTAGCAA
TATTCAGGAAAAGTAAAGCCTAAAGAAGAAAAGAGGGAATGAATAGTTTG
TCTAGAGATAATAAAGGAAGGTGAATTTTTAAAGACAAAAATAAGGC
TAGAAAAGACTGAGTGGAGAAAGCCTACAGAATTCAGAAAGCTAAAGAA
ATTGGAAATTAGATTGAATATAGATAGAAATGGGAGGACAATGCAGCCAA
TGAAAGACTGTGGGGACTAATAAAGGGAGAGCCCTGTGGTTTGGAAAGTG
TCCCTTAATCAGCCTGCAGTGTGCAAAACAGAAACCCAGAGAGGGTGCT
TGAGAATATACAGAACCCTTGCAGGTGGTGAACAAAACGCAGCCAG
GGATTTTCATCAGAAGCATAATCCATTTCATGGCACCAGTCTGGCAGTGCTG
GGGAGCTGGTAAGATACACAC

>414.1

GGCGGCAGGTACGCGGGATCCAAGATGAAGTGCAGAGAAAATAAAGAATC
CAAAGTCATAGTCATGAGGACAGAAT

>415.1

AAAACCAAGACGAAGCCACTACAGCCCCGCGTACCTGCCCGGGCGGCCA
AAGGCCAACAAAGGCAGTGGG

>416.1

TCACCGCGGTGGCGGCGGAGGTACGCGGGGCTGCGGAGGACCGTGGGCAG
CCAGGGTGGTGAAGGATCCCAAAATGGCTGGGCGAAAACCTTGCTCTAAA
AACCATTGACTGGGTAGCTTTTGCAGAGATCATACCCAGAACCAAAAGG
CCATTGCTAGTTCCTGAAATCCTGGAATGAGACCCTCACCTCCAGGTTG

Table 3

GCTGCTTTACCTGAGAATCCACCAGCTATCGACTGGGCTTACTACAAGGC
CAATGTGGCCAAGGCTGGCTTGGTGGATGACTTTGAGAAGAAGTTTAATG
CGCTGAAGGTTCCCGTGCCAGAGGATAAATATACTGCCAGGTGGATGCC
GAAGAAAAAGAAGATGTGAAATCTTGTGCTGAGTGGGTGTCTCTCTCAA
GGCCAGGATTGTAGAATATGAGAAAGAGATGGAGAAGATGAAGAACTTAA
TTCCATTTGATCAGATGA
>418.1
TGGCGGCCGAGGTACGCGGGATTTTGAATGAATTCTCAACAAAATGTGCT
AGCCACTGGGGACGCAAAACAAGTAAGATCCCTGTTGCAAGAAATTCATT
TTATAGTGAGGGAGGTTGGCATGGAGACTAAAATTCTCAGGAAAATGAGA
TCCGTGTTAGATAGAATCCTGATGTGAAATGGGAGGACTCAGGAAGGAGG
ATCGTCTTTACCTGAGGATTTCTAGCCAGAGGTCCCAGATGCCTGGGCTG
AGAACCCAGCGATAAGGGGGCGTTCCCAAAGCAGACACAGGGATAAGAAC
AGAGGAGGCAGCAGCATTGCACAGCCCCAGGCACAGTGGCAGTTAGGATG
GCTGGAGAGTAGGATAGTTCTATGGGTTGCCAAAAAATGTGATGTGCTT
CATGTTTTCTCTGACTCATGGATCTGGTAGAGACCATAGACATGATATAG
ACTAATTGCCATTTTTTCAACAAGAGGAAACCATGCTTATGACTTACCTT
AAAGTTTTTTGTTCTGTTTTGAAAGAAACCATGTGCTTCATGAAACCTAC
AGTTGA
>419.1
CGCGGTGGCGGCCGAGGTACAGTATATTGACCTTAAAAATCAGTAAAGCA
GTCATGGAATAACAGGTCTGTATTATTCATGGGCACAAACTGACTCAT
GGCTGGGGAAGAAGCAGCCACCTTAGACCAGATGGACAAGCCAGATACTG
CAGAGAAGTTTCTGGGCTTTT
>419.2
GGGAGACTCTAGATTCAATTCTGTAAAGTTATGATGCAGTTTTCTCCTTC
CTCTCCTCTCACCTCCTCTGAGCACAGCTTTCAACAAAACTTTGCATAC
CCCGCGTACCTGCCCGGGCGGCCGCTCGAGGTACTTCTCTGAGCATTGGC
CTCTGGCTGGGATTATGCTTCAACAGTCTTGAAATGAGGTCCCTGGCTCC
CTCTGTTACAAAGTCAGGGAATGTGAATTCAACCCGTGATATTCTTTTGT
AGGTCTCTTGGTATGTGTTTTGCCTCAAAAGGAGGCTTCCCAACTAAAAAT
TCATAGCAAAGAACTCCAAGGCTCCAGAGATCCACCTTCTCATCATGCAT
GCGACCTTCAATCATTTCAAGGGGCA
>420.1
CGAGGTACGCGGTGGTGGCGCCATTTTGTCTCGGCAGCGGTGGCCGTAG
CTCCATCGCATTTTATGTTTCTGGCGAGAAGGGAACGGAGTTTTTCATCAG
GTAGATTGGTTTTTGT
>421.1
GCCGCCTGCCCTGAAAGACCTCCTGCTGGAAGACCTCCAGGATGGAGAAG
TGAGGCTGGGTGGCTCCCTGCGAGGGGCATTAGCAACAATGAGAGAATT
AAAACTTCTTCAGAGTCAGTTTCAAAAATGGATCCCAAAGTCAGACCCA
CTCGCTACAAGCCAATGACACTTTCAACAAACAGCAGTGGCTTAACTGTA
TTCGTCAAGCCAAAGAAACAGTTTTGTGTGCTGCCGGGCAAGCTGGGGTG
CTTGACTCCGAGGGATCGTTCCTAAATCCCACCACCGGGAGCAGAGAGCT
ACAGGGAGAAACAAACTTGAGCAGATGGACCAATCGGACAGTGAGTCAG
ACTGTAGTATGGACACGAGTGAGGTCAGCCTCGACTGTGAGCGCATGGAA
CAGACAGACTCTTTCTGTGGAAACAGCAGGCACGGTGAAAGTAACGTCTG
ACAGAAGCATGTGCACTTCGGGAAGCAGGCCTGCATCTTACCTGTACC
>422.1
ACGCGGGAAGTGGGGAATTCTGGCCCTACGTGCATTCACAGGCAATGATG
GGTTTGTGTGATGGTGTGATGAGATCCTCTACCTCATAACAAAAGGACA
GTGGGTAGACTAAGGCAGTAGCTCAAAGGGCTTTGCAAAATTTAATATAT
TAAACAAGAGGCATCTGCTAGAAAACATTCTATTGTATACATACTGAAA
ACCTATAAGGTCTCTGGATAATTTTGTGTTGATTATTCATTGAAGAAACA
TTTATTTTCCAATTGTGTGAAGTTTTGACTGTTAATAAAAGAATCTGTC
AACCATCAAAAAAAAAAAAAAAAAAAAAAAGT

Table 3

>423.1
ATTAGACAGGGGGAAGTAAAATTATCTTTTGCAGATGATATGACTTATA
TGTA
>424.1
TGGCGGCCGAGGTACTGCCGTAGCCGCTCCTCCCGCAGCTGTGCCGCCTC
CTTGTCCTCCTCCTCATTGTCACTGCCAAACAGGTCAATGTCATCATCCT
CGTCATCCTCTGCTGGTGTGGCTGGCTTCCAAGCTGGTGCCCGTGGGCTA
CGGTATCCGGAAGCTACAGATTCAGTGTGTGGTGGAGGACGACAAGGTGG
GGACAGACTTGCTGGAGGAGGAGATCACCAGTTTGAGGAGCACGTGCAG
AGTGTGATATCGCAGCTTCAACAAGATCTGAAGCCTGAGTGTGGGT
>425.1
GGTGGCGGCCGAGGTACTAAGTGGTTTAAGGATGGAAAAGAGCTAACAAG
TGACAACAAATACAAAATAAGCTTCTTCAACAAAGTATCCGGCCTTAAGA
TCATCAATGTAGCGCCGAGTGACAGTGGGGTATACAGTTTTGAGGTGCAG
AACCCTGTTGGCAAAGACAGCTGCACAGCTTCATTGCAGGTTTCAGGTTG
GTTGATTTCTTGGGCTTTTCTTCATCATTATAATAATGTAGTTCCTGAT
TTTCATAAATGTATATGGGTTGTTACATCTTCTATAGGATAACATGAGTC
CGACATCTTCTGAATCAGCAAATTCAGAGGCAATACCATCTCAAGAAGCC
ACCATTGAGACCACAGCCATTAGCTCATCCATGGTCATCAAGAACTGCCA
GAGGAGCCATCAAGGCGTCTATTCTCTTAAATGAGAGGCAGGACTGGCT
AGGGTGATGCCTAAAGATGATTCCCAGGCTTGACATGCTGGTATTCTTAC
ATATC
>426.1
TGGCGGCCGCGCCCGGGCAGGTACTGAATGTGGGAAAGCCTTTTGCCAGAA
ACCACACCTGACCAACCATCAGCGAACACATACAGGAGAAAAACCCATG
AATGTAAGCAATGTGGAACAACTTCTGTGTGAAGTCAAACCTCACTGAA
CATCAGAGAACACACACAGGGGAGAAGCCCTATGAATGTAATGCATGTGG
GAAATCCTTCTGCCACAGATCAGCCCTCACTGTGCATCAGAGAAGACACA
CAGGGGAGAAACCTTTTGATGTAATGAATGTGGGAAACCTTCCGTCAG
AAGTCGGCCCTAATTGTTCCACAGAGAACTCATATAAGACAGAAACCCCTA
TGGATGTAATCAATGTGGAAATCATTCTGTGTGAAGTCAAACTCATTG
CACATCATAGAACACACACAGGGGAGAAACCCCTATGAATGTAATGGTTGT
GGAAATCATTCTATGTTAAGTCAAACTAACT
>427.1
TGGCGGCCGAGGTACCTTACTTAGCAGAGCACTTTGCAAACATATTACTT
ATTAGCAGAGCTCTTTGTAGACCTTCCACATCTGGCTGTCAGATCTTAAG
GTTGTGAATTTAGGCTCCAGTTATATTCACTGGAGAGCATAATCCACAC
GGGTATTTATAAATACAGAGCCTCTGATTGGACGGTCTCCTGCCAAGAA
CTAGTAATACCCCTGTTTTAAATCTTCACAAGGTAAACTTAAAAAGCC
AACCAAAACAAATTGCTCTCCATTCTACTTTTAAATTGGGCCAAACAGCATA
TGCTACAGTAGTAACATGTTTTTCGGAGAGTGTAATAAACTCTGTTTACA
TTTGCCTCCTCCGTGGGTTGATCGAAAATGTATAAACTGACTGCTTCTC
GCCAGCCTCAGACAAGAAGAGTGAGCTGCTGGTACCTGCCCGGGC
>428.1
GGCCAAATGCAGAAACGTCCCACATGCCACCAGGAGCAAGCTTCAAAAT
GTTACAGCTTGCGGGGCA
>429.1
TGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGTGATCTCAACTGC
TTTTAGCAAGTTGTGAATATACTTGGGCTTTCTGTCTTCCCCAAAAGCA
ATTTGGGATTATTTCTCCTTTTTTTTCTGCATTTTCATCATAAACTAG
TCATATTCATACACAGTAGCATCTTCTGCAAGGGCCTTCTGGATTTCCAG
TTTGGTCTGTTTCATGGCCTGCTTCTTAGCAGCTTCCCTCTGAAGGCTTT
CACTCACAGAGGTCTCATCATCATCAGAATCATTCCTCAAACTGAT
GGTTTTTGCAAAACAGGGTGCAACTGCTGTGTTTTCTTTGGCAAAATAAG
CCCACT
>430.1

Table 3

GGCGGCCGAGGTACAGACAAAACCTACAGACTTAGTCTGGTGGACTGGACT
AATTACTTGAAGGATTTAGATAGAGTATTTGCACTGCTGAAGAGTCACTA
TGAGCAAAATAAAACAAATAAGACTCAAAGTCAAGTGACGGGTTCT
TGGTTGTCTCTGCTGAGCACGCTGTGTCAATGGAGATGGCCTCTGCTGAC
CCAGATGAAGACCCAAGGCATAAGGTTGGGAAAACACCTCATTTGACCTT
GCCAGCTGACCTTCAAACCCTGCATTTGAACCGACCAACATTAAGTCCAG
AGAGTAAACTTGAATGGAATAACGACATTCCAGAAGTTAATCATTTGAAT
TCTGAACACTGGAGAAAACCGAAAAATGGACGGGGCATGAAGAGACTAA
TCATCTGGAAACCGATTTTCAAGTGGCGATGGCATGACAGAGCTAGAGCTCG
GGCCAGCCCCAGGCTGCAGCCCATTCGCAGGCACCCGAAAGAACTTCCC
CAGTATGGTGGTCCCTGGAAAGGACATTTTGAAGATCAACTATATCTTCC
TGTGCATTCGATGGAATTTTCAAGTTCATCAGATGT

>431.1

GCGGCGAGACCAACAACAGCCCTCCAACAATGATGACCAGTGGAAAAAC
AATGGAGTCAACAAAACCTGGGACAGGCTCATGCTCCAGGACAATTGCTG
TGGCGTAAATGGTCCATCAGACTGGCAAAAATACACATCTGCCTTCCGGA
CTGAGAATAATGATGCTGACTATCCCTGGCCTCGTCAATGCTGTGTTATG
AACAATCTTCGAGCGGCCGCCCGGGCAGGACGCGGGAGTTCAAGAAGCTG
GTGGTCAAGGAGGAGGAGGTGGAGGTGGCAGTGGAGGAATTGCAGAAGCT
GGAAGTGGTCATATGAACACTACATTCAAGTAACACCTCAGGAAAAAAAAGC
TATAGAAAGGTTAAAGGCATTAGGATTTCTGAAGGACTTGTGATACAAG
CGTATTTTGTGTTGTGAGAAGAATGAGAATTTGGCTGCCAATTTTCTTCTA
CAGCAGAACTTTGATGAAGATTGAAAGGGACTTTTTTATATCTCACACTT
CACACCAGTGCATTACACTAATTGTTCACTGGATTGTCTGGGATGACTT
GGGCTCATATCCACAATACTTG

>432.1

GGCGGCCGAGGTACCACTGCTTCCCGGGACTCTGCGTTGTTACCACTGCT
TCCCGGGACTCTGCGTTGTTACCACTGCTTACTGCGTTCCAGCATTTCT
TTTCTCTTCTCGTTTCTGTAGATTCCGGCTAATGGTTTCCCTGGCATT
TGACTTCGTGATGTGTAAGTATTCTTCTTCTGAAGGGGGAAACGCATT
CAGAGCATTTGTTCGGGCTCATGTAGGAATAGATCTTTGACTGCCCGGTA
AATCCCGCGT

>433.1

GCGGCCGCCCCGGGCAGGTACAAATCTACCTCCCCACCAATGTCCTTAGA
GGGCCAAAGATGGC

>433.2

GCAGTCATGAAGCTGGCAAATGGCAGAACTGGAGCTAGAACTGCTGACT
CCCTTTATCTTTTCCATAGCACCCCAAGCCTAAAACAGACTGGCACAAA
T

>434.1

GCGGTGGCGGCCGAGGTACTTTTCTAAAAGCTCATCCACTCTATCATTTA
GATATCCAATTTTCAAGATGTGCTCAACATTGGCCACTCCATCTGCCATT
CTTAAGTCTCCTTGGGAGTCTCCAGAAAGATTATGTTACTATTGTCTTT
TAGTTGATTGAAATATTCTGTATTCTCAAGGCACCATCATGTTTGTAA
ATACATGAATTAGTTCTCCTTTAAATCCTTTGAGCACCCCTATGAAAAA
TATAAATCTTTTGAACAGGCTTTAAAAATTCTATTTGTTGGATTTTCATA
TTTTGGAGCTCTTAATTGATGTCACATATTATTTATCATATTTGTAAATA
CATCTTTGATACTAGAGATCTCAAAGCACTTAAGTCCATCACATTCACCA
TAGCTAAGAAGGGCTCGGAGAAGTAAATGATTTTTTAGATACTATTTTAA
ATGGTAAAAACAAAAGCCGGGCGCAGGGGCTCACA

>435.1

ACGCGGGGGTTGCTCAAACCGAGTTCTGGAGAACGCCATCAGCTCGCTGC
TTAAAATTAAACCACAGGTTCCATTATGGGTCGACTTGATGGGAAAGTCA
TCATCCTGA

>436.1

GGCGGCCGAGGTACGCGGGGGAACACCACCCAGTGTGGAGCAGCCAGCC

Table 3

AAGCACTGTCAGGAATCCTGGGGAGGCAGCTACCAACTGACTGCAGATCT
GGAATAATAAGTGAGGGGTAGATCTGCCCATAGAGCTCACTTTAGACCGG
CCTATACTCCTACAAAGAATTGTGGTAGGATC
>437.1
GGCCGAGGTACCTTTTTAGAAAGAGAAAAGAATCTTGAATTGTATATATTT
ATTTTGCTTTACAGAAAAAATGGTTTCGTAAATAATTTGCCTATTTTGG
TTAACATAGCACATGGAGATAATCATCTGAAAGTTATAGGGCACTGCCAC
TGCTGAATCAAGAGCATGCCCAATATTTGAGGTGGCTCTGATTTCTGGC
AGCTGAACCTCGGGTAGTCCAGTGGCCTAGCTGGTCCTGCCCC
>438.1
AGGAGGAATTAGTGGATCCCCTAACACAGTGAGAGAGCAATGCGAGCAG
TTGGAGAAATGTGTAAAGGCCCGGAGCGGCTAGAGCTCTGTGATGAGCG
TGTATCCTCTCGATCACATACAGAAGAGGATTGCACGGAGGAGCTCTTTG
ACTTCTTGCATGCGAGGGACCATTCGCTGGCCACAACTCTTTAACAACT
TTGAAATAAATGTGTGGACTTAATTCACCCAGTCTTCATCATTGGGCA
TCAGAATATTTCTTATGGTT
>439.1
GTGGCGGCCGAGGTACTCTGTGATTTACCTAGATTTGGAGAAGGTGAGG
GAGGAAAGGCTGTCTCTTTGATCCCATACCATGCAGGGGCAAATGGCTG
>440.1
GGCGGCCGAGGTACGCGGGATGTCTAAATATCTTGTAAAAAGTGTAAAA
TAAACAAACCCAGTCAATTAAAAATTTGACTGTTATTGAGAAAACCTC
>441.1
GCGGCCGAGGTACATTGTAGCTTTGAACTCAGTGTAAAAATTCATCT
GGTTACACACTCTATCTTAGATCCCTTGAGACACTGTCTTCTTGAAT
AAGGGCCAGGTGAAATGGCATTTCAGCTGTGGAAGGATTTCTCCAGGGA
ATTCTTGGTGACCTCACTCATGACTGCCCTCTGTGTCTCTGCTGTCCGA
AAAGCTGGTGACCAGGCTGATTTGTTCTTCAGAAAGTCTTCTGTCTGCCC
CCGCGTACTGTTCTGTCAGGTTAAGGCAGGACTGGAACCTCCACAGCT
TGCACATAGTTTTCAGATTCAACACTAACTTCTCCGAGTTTAAGATGTGC
CTGGGCAGCATAAAGCTGTGCTTCTTTGTTTCTTGCCTTTAAAAATGA
TCTTTGCTAAATCCAGCATATCCAGGCAAGCTCTAGGTTCCCAATCTCC
TCCTCCTCATTTTCTTGAAGAGACTTGTTCCTTCAAGGACTGAATCATTGG
CATTCTTCAGTCTTATCATTCTTTCATCATCCTCTTCCGAGCCTTCAG
TTTCTTACCCCTCTTTCATCTGGTCTTCTCTCTTGGGGCTCTTCATTA
GCAGCTA
>442.1
GGCGGCCGCCCCGGGCACGTACTTTTGCTGCTGAGGAATGGAATCAAAAGA
ACGTAGTCTCTGGTAACCACCTCAGATCTCTATTATTAGGCTAGATGTG
GGCGGGTGACTCCCCAGCTTCTTGGCTCTCGACCCTGCACTGTAAGTTG
CCCTTCTATTAGCAGCCAAGGAAAAGGGAAACATGAGCTTATCCAGAACG
GTGGCAGAGTCTCCTTGGCAATCAACCAACGTTGCTATGAAATATGCCTC
ACACTGTATAGCTCATTATAGGACGTCAGGTTTGTGAAAAAAGTGGGCA
AGACATGATTAATGAATCAGAATCCTGTTTCATTGGTGACTTGGATAAAG
ACTTTTTAATTTAAAAAAAATATTCATGGAATAGGGT
>443.1
CCCGCGGTGGCGGCCGAGGTACATGAGAGACACTTTAAGCAGGCTCACAG
GAATAGAGTGAGTGCGGACTCAGATTGTTTAAGCTATCTCTGAACCCATT
CCTACTGCGTTTAACTATTTTATTGGTTTCTAACTACTACCACAGACAG
GATACCTCACAGGTTCCATTATTACTCACAGCGTTGTGGTCCGGGTTTCAT
CGCCATCCTGCTCCACGCTGTCATAATCCTCACGCATCCGCGCTCGGGAC
CCCTCTTCTATAAGGGACATACAGAGATCACCGAAAACTCCTCCTTTCT
CCCATTGTTCTATGAGGTGGGTGGGACTCCAAAACCCGAGCTCCTGC
CCTACTAGGCCACTCTACCCATT
>444.1
CCACCGCGGTGGCGGCCGAGGTACCCAGCCCCACCCAGGCAAAACAGCTCC

Table 3

GACATGTTTCGTAAGTGAGACAAGCCAGTGCA
>444.2
GTTATGGCTAAGCACATAGAAGGCCAAAAAAGGAGTTTTTCAAACCCAGC
AAATCAAGTGCTTGGATTCTGAACTGCCAAAAGAAAAGTGCCTTCCCCT
CTTAAGTAAACGAAATGAGTTTCTTAGGTAAATGTATTCATCAGCCCAG
ATAAAAAAAAAAACAGTTATGTGAGCGTTAGTCACTGCTCATTTCAGGA
AGATCAAACAAAATACCAGCCCAGCCAGACTCACATGTGTGTATATATAT
ATAAAGCAAAGAGCCCCGCCACAAAGCCAGCA
>445.1
ACTTTACTAAAATGACTGCATTCTTTGGATTCTTCAGTCTATGGTTCAA
GTCATAAGATTCATTTTGTTGAGTCCTTATGAGAAACAGCAGTATGA
ATCTTGACGGTTTCTGCCCGTCCTAATGGCAGAGCTCTCTGACTTGGGTG
TATGCTACCAGGCTGGGTTCAAGTGAGAAGTTCTGGTCAGTCTTCTGTGG
GTTGAAGGTTCAATATCAATTCTGTTTCAAAGCCTTTGTGATGCTATTTG
AATCTTTGCTCGGTATATGCCACCCAGTGGTCAGTCTGGGACCTAGGTGG
TGAGCTATCCCATAGTTCATTCTCAACGTCTTACTGCACTGTTTAGGGT
CAGATACACATATATATACTTTGGGTGAGCTCAGGAGTTTATAAGCT
TTATGGGCTTGGTGTTTGTATTATAAACAGGAGTTTATAGAAGTTTAT
>446.1
GCGGCCGAGGTACGCGGGGAGACACAACCTTCTGGGCTTAGATATTTTCA
A
>446.2
TTAGTTTGTTCATGCTGCTGATAAAGACATACCTGAAACTGGGAACAG
AAAGAGGTCTAATTGGACTTACAGTTCCACATGACTGGGGAGGCCTCAAA
ATCACGGTGAGAGGTGAAAGGCACTTTTACATTGGCAACAAGAGAAAAA
TGAG
>447.1
CGGCCGAGGTACGTTTTGTGACAGGCAATAAAATTTTAAAGATTCTTAAG
TCTAAGGGACTTGCTCCTGATCTTCTGAAGATCTCTACCATTTAATTAA
GAAAGCAGTG
>447.2
CGAAAGCATCTTGAGAGGAACAGAAAGGATAAGGATGCTAAATTCGGTCT
GATTCTAATAG
>447.3
GTTTTGGGCTTCCGATATTAATAAGACCAAGCTGAGTCCTCCCTCCCAAT
TGGAAATATGAATCATCTACAGCCTTCTGCCCTGGTCGCATAAAATTATG
TCTGGTGTTCTCAAGGCAATTAATAATGATTGTTTTAACACCAACAA
>448.1
GGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGTAGTGTTTT
CTGATGTCTTTTCTAACAAATCTTGCCTGCCCAAAGTCTCAAAAACAT
TCTCACGTTTCTA
>448.2
AGTCCATGTTGCCCAAAGTGGTCTGGAACCACCACACCCAGCTAATTTTT
GTGAATTGCGGGTACCAGCACACCGGCCGCTCCTGGACTGCGCCTTCTA
CGATCCAACGCATGCCTGGAGTGGAGGACTAGATCATCAATTGAAATGC
ATGATTTGAACACTGATCAAGAAAATCTTGTGGGACCCATGATGCCCCCT
ATCAGATGTGTTGAATACTGTCCAGAAGTGAATATGATGGTCACTGGAAG
TTGGGATCAGACAGTTAACTGTGGGATCCCAGAAGTCTTGTAAATGCTG
GGACCTTCTCTCAGCCTGAAAAGGTATATACCCTCTCAGTGTCTGG
>449.1
CGGCCGGGTACAAAAGCAGGGGGCCAGCCCCAGCTGTTGGCTACATGAG
TATTTAGAGGAAGTAAGGTAGCAGGCAGTCCAGCCCTGATGTGGAGACAC
ATGGGATTTTGGAAATCAGCTTCTGGAGGAATGCATGTCACAGGCGGGAC
TTTTTCAGAGAGTGGTGACGCGCCAGACATTTTGCACATAAGGCACCAAA
CAGCCCAGGACTGCCGAGACTCTGGCCGCCGGAAGGAGCCTGCTTTGGTA
CCTGCCCGGGCGGCCGTCGATCTCCTTGTGTTCAAGCAACTTCTTGCGGT

Table 3

AGTCCTGAAGCGCCTTATCTCTAGGGTCCGCCATGATGAGAACCCCGCGT
>450.1
GGCGGCCGAGGTA CTCCCTACGGCACTAGTCTACAGGGGGAAGGACGCTC
TGTGCTGGCAGCGGTGGCTCACATGGCCTGTCTGCACTGTAACCACAGGC
TGGGATGTAGCCAGGACTTGGTCTCCTTCCCGCGTCAAGAGATAGAAAGA
CCAGTCCTTGTGAAAGACAAGTCTGAATGCTCCACTTTTCAATTCTCTC
TCCATTCTTCAGTAAGTCAACTTCAATGTCGGATGGATGAAACCCAGACA
CATAGCAATTCAGGAAATTTGACTTTCATTCTCTGCTGGATGACGTGAG
TAAACCTGAATCTTTGGAGT
>451.1
GAGCGGCCGCCCGGCAGGACAAATGAGTTTAGAAATGTTGTATAAGGCTG
ATCTGGACCCAAACTAAAACAA
>451.2
GGTTTTTTTGTAGAAACCATGGTAAAAAGGGAAAAAGAAACCTTTGACTGG
CGGGGGCAGGGGGAATACAAAAAATCCCTTGATTTTTAAATATAC
TTGAATATCAAACCTCAGAAAGAGTTATTTTGTGAAAGAGGCAAAATTGG
TCTTGAGCTGCTTCAGTCTATGTCTGAAGTTTTACTGAAATTATGGTCC
AGTTTTAGGAGAAAAATTCACAGAAAAGTCAGATTGTAGATTTTGAGAAG
GAAACTCTGAGGTGGTATTTCTCCAAGGTCATGGTTATGAAGCTCAAT
GAGGGCCTGAATTGCTTCTTCCACAGATCCCAATTGAATGAGCGCCATT
TGCGATCTTTCTGAAAGAATTTAAAGCCTTCACTGAACATCCAGCTTCT
ATGAAAAGGTTCTTCAGATCATCCACTGTACAGAAGGGGGAATGTTGGA
AAGA
>452.1
GCGGCCGCTAATGTTAGAAGTTAAGTTGGAACCTATATTGTAGAGGAACA
AAAGCCAATCAGTGTCTTTTTGTCTTTTTTACATAAACTTTTACTACA
AAAATTAATATATGGATTTTGAATTTCCAGTCAAACCAAATTGTAAACT
GTTTCATTTGGTTCTATATTATGTATACATAATTTATCTATTATATATT
ACATTAAAATATATGCATATATAATGGATTTAATTTCTTTTGGCACCCC
CATATCTAGAAGTCTCTTCATAAATTAATAAATAATCTAGGGCCAGCATT
ATGTTTGCTAGACCTGGATTTGGCTCAATACTTAAAGTTAAAAGTTTCTG
TCTTTTTCTTGGACTTGAACTGCCTAGAGCGTCAGTCTCTCTGTTATT
TTTTCTATTTCTTTTTCCCCCATCAGTCTTTTAGCCACTTGAAGCCAA
AATTCCTAGTTTCTGTCCTAGTCGATAAGAGTAAAAGGGGAAGGAGGAAA
A
>453.1
TGCGGCCCTTATCCCGGGTAACCTATACGTCTTTGAGGTCCCAACCCCGG
>454.1
CGCGGGGACCTTTACGGGCGGGGGGAGCTGAGGCTCCTGCCGACATCTC
TGATCCTTGACCCCTGGCAGGAAGCTGGTCGCGGGCACTATAACGGGAGG
CCTCCACATATTCAGAAAAGAAACCACTCTGCAGTGCCAGACTGGAAGA
AGTAACGGTCACTCTGAAAACAGGGGGGAGAGCTGCCTCCCTTTGAACC
TCTCCCAGGACCAACTCTAACCAGGGAGGGGAACTTGGTCGGTGCAAGC
GGTGGCTTGGAGACAGAATCATCTAATGGAAGATACACTAGAAGGCGC
TGGGGATACATCAGAGGAGAGGGATACTCACGCGGGCTCCGTGGATGAAG
AGAATGGCCGACAGTTGGGCGAGGTAGAGCTGCAATGTGGG
>455.1
ACGCGGGGAGGATCTCTGTCTTTTGTCCCTCACCTGTCTGCCTGTCTCC
TCTCCTTTCTGCCTGGGGGGGACTGTCCAGAAGACATCATCGTCCAGTTC
CTCTGCATTTGAACAGCTGATCCCCCACCCTCAATACCGTTTAGAGCAG
AAGCCAGCAATAACTAAACGGTCAGGGACAGATAGAACTATTTTCGGCT
TCATGGGCCACACAGCCTCATTGTAGCTTCTCAAATCTGCTGTTGTAGCA
AGAAAGAAGCCATATACCCTGTGTAACAAATGAATATGGCTGTGTGCCA
ATAAACTATTACAAACATAAAGAGTGGGCTGGATATGACTCAGATACT
GTTGTTTGACAACCCCTGATCTAGAGTAAAAATTCCAAAC
>456.1

Table 3

GCGGCCGAGGTACAACATGACATTTTTTAACCAATCCAATCTAAAAATGTG
CCAGAATCCACCTGTGGCCCGAATCGTGTGGTTCTCTTCTACTCCA
CTGCAGATGACCAAACCTGTCCCGCTGCCACTTTCCTCACTGATATTGGG
AGGAGGGCAAGGCCAGCCGAAGTTCCTACTAAAAATGCCCGAGGAGAATA
GGCACCGGCTGGCTTGCCAAAGGGTTTGGGTTTTATTGCTTTCTGTTTT
TCTTTTCCCGACAGCACAAAGAAGTAAGGGCAGTTATTGGACAGGTGTTA
TTTAAACATTCTATTGTAAATGAATGTGTTGTTGGTTCTACTGCATTGT
GGAGCATGCGGGGAAGAGAAGTACCCAGGTAATGAA
>458.1
ACAGACAAAACCTACAGACTTAGTCTGGTGGACTGGACTAATTACTTGAAG
GATTTAGATAGAGTATTTGCACTGCTGAAGAGTCACTATGAGCAAAATAA
AACAAATAAGACTCAAACCTGCTCAAAGTGACGGGTTCTTGGTTGTCTCTG
CTGAGCACGCTGTGTCAATGGAGATGGCCTCTGCTGACTCAGATGAAGAC
CCAAGGCATAAGGTTGGGAAAACACCTCATTGACCTTGCCAGCTGACCT
TCAAACCCTGCATTTGAACCGACCAACATTAAGTCCAGAGAGTAACTTG
AATGGAATAACGACATTCCAGAAGTTAATCATTGAACTCTGAACACTGG
AGAAAAACCGAAAAATGGACGGGGCATGAAGAGACTAATCATCTGGAAAC
CGATTTCACTGGCGATGGCATGACAGAGCTAGAGCTCGGGCCCAGCCCCA
AGCTGCAGCCCATTACAGCACCCGA
>459.1
TGGCGGCCGCCCGGGCAGGTACGCGGGTAGTGAGCTGGTTAGTGAAGGCT
TTGTAGCTGAGCAGTTTCTAAATAACACAGCCACTCAACTGACATACCAT
GGATTATGTGAACCTCAACGGTTCAGGAAGGAGAACTTTGTGTGTT
CTTTCGGAATAATCATTTTAGCACCATGACCAAATACAAGGGTCAACTGT
ATTTGTTGGTAACGGACCGGGGTTTCTTACTGAAGAGAAAGTTGTTTGG
GAAAGCCTACACAACGTAGATGGTGATGGAAATTTCTGTGACTCAGAATT
TCATCTTCGACCTCCTCAGATCCTGAACTGTATACAAAGGACAACAAG
ATCAGATAGATCAGGATTATCTTATGGCATTATCTCTACAACAAGAACAG
CAGAGCCAAGAGATCAATTGGGAACAAATCCCGGAAGGAATCAGTGATT
GGAAGTAGCAAGAACTCCAAGAGGAAGAGGACAGACCGGCTTCTAATA
CTATCAGG
>460.1
TGGCGGCCGAGGTACGAATGTGCAAAATTAAGCATGGTAACTGATATT
TACATAAATATCAAACCAACAATTAGTTTATACATTGTCAATGACCTTCT
AAGATATGTCATGAGTGGATCCAAGAATATCTTCCCCCAATGGAGAAGG
TATTCAGAGGCTAAATCCGACACTTTAAATGACACACATCATAGGCTT
TACCTGTTTGACCACTGCCTCAAATGTGTGAGATGTGATTTTATGATCCC
GCGT
>460.2
TAGACTTCAGGGAAACAACACGTCCTGAAAGAAACATGATCCCCTCAAG
CCACAAAGGATTTTCTCATCAAGTGTTCACCTCTGCATTAGATTGGA
CACAAGAAGAGGAGAGCATTACTCAGGTAAAAATAGTTCTTCTAGTCTC
TTCCTCTAGTTACTAATTTTTAATTTAAAAATACAATTAAGTCTAGC
TGATAAAAGTCACAGACAGAAATAAGCTAAGTTCTCTCTTCTTAGGGA
ACGCTGGTGGCAATTACCATATAAAGTGGATGGAAGAATTCTCCCA
>461.1
CTGGAGTTCTAGCAAGTCGGCCAGGATGTCTAAGGCTGAGTTTGAGAAAG
CTGCAGAGGAGGTTAGGCACCTTAAGACCAAGCCATCGGATGAGGAGATG
CTGTTTCTATGAGCCACTACAAACAAGCAACTGTGGGCGACATAAAAAAC
AGGAACGGCCCGGGATGTTGGACTTCACGGGCAAGGCCAAGTTGGATGCC
TGGAATGAGCTGAAAGGGACTTCCAAGGAAAGATGCCATGAAAGCTTACA
TCAACAAAGTAGAAGAGCTAAAGAAAAAATACGGGATATGAGAGACTGGA
TTTGGTTACTGTGCCATGTGTTTATCCTAACTGAGACAATGCCTTGTTT
TTTTCTAATACCGGGGATGGTGGGAATTCGGGAAAATAACCAAGTTAAACC
AGCTACTCAAGGCTGCTTACCATACGGGTCTAACAGATTAGGGGCTAAAA
ACGATTACTGACTT

Table 3

>462.1
ACCGCGGTGGCGGCCGAGGTACGCGGGATATTGTTCTGATTTGCCTGAT
GTGTGGACGGATCACCAAGCGAGTGACACGAGAGCTCAAGGACAGGCTAC
AATACAGGTCAGAGACAATGGCTTATAAAGGTTTAGTGTGGTCTCAGGAT
GTGACAGGCAGTCCAGCCTGACCTTTCTGCACACTCCAGACAACTTCCC
AGACAAGCTCCTTTGTGCCTCTACGTGGAGAGGGCGTGGAAGTTATCAC
ATTAAGATGGAGGATTTAAAAATAAAAAAAAAAAAAAAAAAAAAAG
T

>463.1
CCGACCCTGCCGCTTACCCGGATACCTGTCCGCCTATTCTCCCTTCGGGA
AAGCCGTGGGCGCTTTCTTCATAAGCCTCACCGCTGTAGG

>463.2
AGGACACCGACTTATCCGGCCACCTGGGCAGGCAGCCAACTGGGGTAAAC
AAGGGATTAAGCAG

>464.1
TTTTTTTTTTTTTAAACCGCTGCCACCACCATGAAAGAGGGGCCACCACA
TTTTATTGCATACTCAGGGGAATAACTTATTATACAATGAACACTCCTC
CATTAGGAGACCATGCCACTTACAGAATGCAGCCGTAAATGCGGTAAAT
CTATTTACAGAGGTTGGGGTGCAAGATGAGAGAAGTATCACCCCCAGGAA
TTTGAAGTGAGAATGATCTACAAATTCTCTGACAAGGAGCAACCGGGCT
TGTGCTAGTGAGGGCTGAAAAAATTCCTGGCAAAACGTAGGGGGAGATTA
AATCTCGGAATTGACAGCAAGTTGGGGA

>465.1
GCGGCCGAACGCAGAGAAGGTAGAAGATAGCACCATGCCGATTCGTGAA
CTGTGAATTCTACCCGGGAAACTCCTCCCAAAAGCAAGCTTGCTGAAGGG
GAGGAAGAAAAGCCAGAACCCAGACATAAGTTCAGAGGAATCTGTCTCCAC
TGTAAGAACAAGAGAATGAAACTCCACCTGCTACTTCGAGTGAGGCAG
AGCAGCCAAAGGGGGAACCTGAGAATGAAGAGAAGGAAGAAAATAAGTCT
TCTGAGGAAACCAAAAGGATGAGAAAGATCAGTCTAAAGGATAAAAAATT
ATGATAAATAAAGT

>466.1
GGCGGCCGAGGTACGCGGGGAGGTGCGTGCGCGCTTCTCCCGAGGTGGAA
CGGGCGGCAGTCAAGCGCCGGCGTTCTCTGCCGTCACCCTTTCCTTGC

>467.1
TTGTTTTCTGAACACTCAGCTGGACTGCATTTCCAGCTTCCCTTGCA
TTAAGTCACAAGTAGCGCTGTGACTGGGTTCTGCCGGTAGAAGGTAAGC
AGAAGTGATGTGTATCACT

>468.1
TGGAGCTCCACGCGGTGGCGGTGCGGTGTGCTGTGCTCATCTGTCTTCCA
AAGGAGGAACAGATCGGCAAGTGACATCTGACGCGTGGCCGACAAATGCTG
TCGAAGAAAGAAATAAAAACCCTGAAACATGAGCGAGAGTGATCGAAACG
TGTGGAAATGCCTTCTTAAAGTTTATAAAAGTAAATCAAATTACATTTT
TTTTCAAAAAATAATTTAAACTAAATGTACCTTAA

>469.1
TGGAGCTCCACGCGGTGGCGGTGCGGAAGGAGAATGGTATCACTCAGGCTC
TCAGAGTGACACTGAAGCAAGACACTCATGGGGTAGGACATGACCCTGCC
AAGGAGTTCACAAACCACTGGTGGAATGAGCTCTTCAACAAGACTGCGGC
CAACTTGGTAGTGGAACCTGGGCAGGATGGAGTACCTTCAGGATTGGCCT
GTTATCTTCTTTAGAATAAGTTCATCTTAAAAATTTAAGAAGGTGGACA
TTTCAACACCATCAAGTGACATTTAGGTGACATGTTTAAGTTAACTTGACT
TCCTTGAATGACCTAGTTAGTAACTAGTCACTAGTAATTCCGGTCACCAA
GCAATCAAGCCTGCAAGAAAGGAAGCCAATTCAAAATGCCATGTTAC
CATCTAAACCC

>470.1
TTGGAGCTCCCGCGGTGGCGGCCGAGGTACTGATTTTATTGTCTACCTC
TCTGGACTTGCTCCCAGCATCCGGACCAAAACCATCAGTGCCACAGCCAC

Table 3

GACAGAAGCCGAACCGGAAGTTGACAACCTTCTGGTTTCAGATGCCACCC
CAGACGGTTTCCGTCTGCTCTGGACAGCTGATGAAGGGGTCTTCGACAAT
TTTGTTCTCAAAATCAGAGATACCAAAAAGCAGTCTGAGCCACTGGAAAT
AACCTACTTGCCCCCGAACGT
>471.1
TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT
TGGGAAGACACAAAGATTCAGACCACAGCCTACAGGGAGAGAGGATTCT
GAGGATGGTGGTGCAGTGTGAGTCCACGCAGGCCTCCTGGGCATAGGATG
GAGCAATTCTATCTCACCTCAGGCCTAGCACAAAGGGCTTCAGTAAACCA
CTGGAGTTTCTTCATTAGGATTCCATCCAGGATATCCAGAGGACAAGA
GGCTGGCCAACTGCAGGATTAGCCTATGCTCCCGTGTCTGGATATAGGCTA
CACGCAAGAGAAAGCTTGGGTGGGATCTCCTGATCCCGCGT
>472.1
CGGGCAGGTACTATGGGTGTAGTGTTACTATTACAGTTAATTCGTCCTT
GTGTGCGCTGATAAATGCAGTGAGGATTGGAGCACTGTCCACTGAGTCTC
TGTGCAACAACCTATCGGTGTGGCAGGGGTTTCCGGTGTCTGGCTCTGAT
CTTGGTCTGCTGGATAGTCTGTCTGTGTTTTTTCGGTGCCCAAGGCGACGGC
TTTGGTATGGGTTCGTGGCGGGGTGGTTGGCCAAGTGTCTAATAATT
TCAGGAGAGGATACTTTGTTGCTGCTGCAGGATCAGCCATGGTAGATTAT
GGTTTTTGAGAACCAGATGGGGCACACAATTTCTAGTGTGCCCATTTAAC
AG
>473.1
ACCGCGGTGGCGGACGAGGTACAAAATAATTATAATGTATTAACATCATAC
TGCTGTCTTTTATAGGGGAAAAAATAACCTTTTTTATTTTAAAGTTAT
AAGGTGGGTACCTTTTAGTTGCTTGGATGACAGGGAAATTAGCCTACCCC
ATTTTGGTCTGGAACAGAAGACTTTCAAATTTAATATGGCCCAAGTGTCT
TCCTACTTAAGTGCAAGATC
>473.2
TTCTCATTTTGAAAAGACATGCTTTTTCTTAAAGCAACAAAGGTGGTAGA
GGAAATTTCTTAACTTTCTCAACGAG
>474.1
GGCGGCCGCCCGGGCAGGTACGCGGGGGAGCTGAGCCGGTGGGTGAGCGG
CGGCCACGGCATCCTGTGCTGTGGGGGCTACGAGGAAAGATCTAATTATC
ATGGACCTGCGACAGTTTCTTATGTGCTGTCCCTGTGCACAGCCTTTC
CTTGAGCAAACCCACAGAAAAGAAGGACCGTGTACTTCTAAAATTGCACT
TTATGTTTTGTAGGCTTGGAGCTTCTTGATTATGGGTTTTTCGTTACAA
AATCAACAACAGAATCAATACTTTCATAAACATTATGGATGCTTTTTTC
TGTTTG
>475.1
CGCGGTGGCGACAGGGTTACATTGGTAAGGGTGACAGTTAGAAGGGGAAG
TCCTTTTAGTGAAATAGATGAGAGGTTTTAGATCTGCACAAACCTTTTTTC
ATGGAAGTCCAACCTTGCTCCTGGGTAGTTTAAAGACGTAGTCCCATGT
>476.1
GGCTACACGCTAGGAACCTTGCAGCTTACAGTGACAGAGCTCCCATTCAC
GAGGCCACCACTCATCTCGATTCTGGATCTCTAGGGAATGAGTAGAGCT
CCACCTGGATTCCCTTTTCCAGTTTCTTATGTCCACAAGTCACTGTGCAC
AGATAAGAGTGTTTCGTTCTCAAACTCACAGGGCTCAGGGTCAGCGTGGA
ATTGGTCCCCTTCACTCCTCACCTTCCCGCTCAGAGGGCTGTCTATCTGG
GTTCTCCAGGAGAAAGATGGGGATTACAGCCCATGACACCTACATGTCA
ACATGACTGAGTCTCCAATCTGAGCAGCAATCCGGGGTCCAGGGGAGATC
TCAACAGTAAATGGTTTCTC
>477.1
CGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTT
GCAAAAATATTTATTAATAATGATTTTTTAAGTTTGAACCTTTATTGGAAG
GAGTCCCTCTAATTCACACTTTTCATCCTAGATAAATGGGTAAAGAACCA
TATGGAATATAAAGCATTGATTTTTTAAAAACCACATAGTAGCACAGTGA

Table 3

AAGAAATGCAATTCTCCAGGGTCTTAGAGAATTCAAAGGGGCATCTTAGG
TGGTCTAAGAAACCAATTACAGTCTCATGGTTTTCTTTTGGTTCAAGAT
TAGAAGAGTCAGGTTACCACTACCTGTTTTAGAGGTAGAATATGAACTT
TCTACTAGTCCACAGTTTACTGGTCAGGTGGCCCCAAC
>478.1
CGCGGTGGCGGCCGAGGTACCTGCATCAGGGATAAGAACCCATTCCCCTC
CCTTGTTCCGGTGTGCTCTCGCCATTGCACCATCCATGAGACGCACTCTT
GTATAGAAGTAAATTCCTTGCTGAGAAAAAAAAAAAAAAAAAAAAA
GT
>479.1
CGCGGTGGCGGCCGAGGTACGCGGGGGGTGTGGCCTGCATCTCAGCTGGC
CGCCATCAGTGTAATAGAGCTTAAAGTCATGGTTTGGCTGCATAAAAAAT
TTTCTAAGTTGGGTGAATATTTGTAGCGAAGTATCTGTTTTCATTTT
>480.1
ACAGATGCAAACGGAGGTGTAGACTGTGCAGCTGCCAAAGTGGTGACAAG
CAATCCAGAGGACCATGAAAGGATCTTAATGCAAGTCATGAACTTGAATG
TGCCGATGAGGCCTGGCATTCTTGCCAGAGACAGAGTAAGGAAGTGTG
GCCACACCCTTAGAAAAACAGAAGGGACATGGAGGCAGAAAAAAAAAAAAA
AAAAAAAAAACGT
>481.1
ATAACCCAAATTTGTTGATGTTTTGTGGCCAAGGTGAGGGCTGCAAGTG
TTTTCTAAGGGTTGAAACATCAGAATAAAGGTATGGTGGCAAGTCCTCCT
TCTGCTAGGCTGGCTGGCAAGGCCCTATGTCTTGACCTAGGTGGTAGTTA
CAAGGGTATTTATTTGCCTTATAATAATCACTAAACTATGTATTTGAGT
AGATTTTATGTGTGTGCTTAAATTTACAAAAAAAAAAAAAAAAAAAAA
GGTG
>482.1
CTGAGAGATCCCTCATAATTTCCCCAAAGCGTAACCATGTGTGAATAAA
TTTTGAGCTAGTAGGGTTGCAGCCACGAGTAAGTCTTCCCTTGTTATTGT
GTAGCCAGAATGCCGCAAACTTCCATGCCTAAGCGAACTGTTGAGAGTA
CGTTTCGATTTCTGACTGTGTTAGCCTGGAAGTGCTTGTCCCAACCTTGT
TTCTGAGCATGAACGCCCCGCAAGCCAACATGTTAGTTGAAGCATCAGGGC
GATTAGCAGCATGATATCAAAACGCTCTGAGCTGCTCGTTCGGCTATGGC
GTAGGCCTAGTCCGTAGGCAGGACTTTTCAAGTCTCGGAAGGTTTCTTCA
ATCTGCATTGCTTCGAATAGATATTAACAAGTTGTTTGGGT
>483.1
TGGCGGCCGAGGTACTCTTCAAATTTGTCAGGTCATGAAAGACAGCAAA
AAGTGAAGAATTCTTACAACTAGAGGAGACAAAGATTGGAG
>484.1
GATGTGAACAATGTGTGCTTCTCAAGAGAAGGATGTGGATGGCCTGG
ACCGCACAGCTGGTGCAATTCGAGGCCGGGCAGCCCGGGTCATTACGTA
GTCACCTCAGAGATGGACATCGAGCGGCCGCGCCGGCAGGTACACAAGCT
TTATTGGGCAACAGCAACGAGCCACGCTGGCAAACAATGAAAGTAGAGTC
GCTCAGAAACACGAAAGATCATATGTGTGTCATCACAGCATCGAGAATTT
AAATCATCTGGAAGTTCCTGCTAAATTAAGCATACTGTGCCAGAGCTCC
CCTCTAATCAAAAAACGCTGTCCTGGTGAAAAATTTGCAATGAGGATTACA
GAGAGAGAGATCAACCAAGTGAGGAAATCACAGACTCTTACATGAGTTTAC
AGTTAACCCCACTGCACAAAATAATAAATTAGCCATAATTTGGTTTTTTT
TG
>485.1
CGTGAGGTATTGTTTGGATTGTTACAATGAACTTGCATTTCTTTTGTAAAT
GAAGAAAATAATACAGAGGAAATAACAACAATAACCTTTGGCCTGGAT
TATCATCGGCTGGAAATTCATGTTGGATGCAAGTTTTATTGATAACAAG
TTATTTTTGGTTTATATGCAAAAAATGTTCAATGAATGCCTCCTATTG
GCTGGCACTGCCTAGGCATTTTACAGGTATTTTATCCTAATCCTCACAA
CAGCCCTATGAGGTAATCATTGGTCCAGTTTACAGAAGCCTTGGGTGGG

Table 3

AGATTATTGCTTGATATACTTCTATTTGCCACACATTTTTGTTGGCAAGA
CGTTCGTATCGGCTGGTGATTCACTGGTCAAGAGCTCTCATTGGCCAGGA
GTTCCATTTTGTGCTGTAAGATTCAAATAATCAAAATACTAGAATTTTT
CCCCACAAGAATGATGG
>486.1
TGGCGGCGCGCGGGCAGGTACGCGGGAGTGTGGATTGAACAGAAAATTG
GAAATCATAGTCAAAGGGCTTCCCTTGGTTCGCCACTCATTTATTTGTAA
CTTGACTGGGGTGTCTTCTGCTTAAAAATTTCAATTCTCGTGGTAACAAC
GCAGAGTAGAAGGAGAGGGTGACTTTACCGAACTGACAGCCATTGGGGAG
GCAGATGCGGGTGTGGAGGTGTGGGCTGAAGGTAGTGAAGTGTGATTTT
AAAAAGTGTGACTGTCAGTTGTATCTGTTGCTTTTCTCAATGATTCAGGG
ATACAAATGGGCTTCTCTCATTCAATTAAGAAAACGCGACATCTTTCTA
AGATTCTCTGTGGGAAAATGACTGTCAATAAAATGCGGGTTTCTGGGCCA
AAAATTATAAATTTATGGAATATAATACTAATAAGAATAATGTT
>487.1
GGTACTTGTTATTTGTTTCTATTATTACTGTTTGACTTCTCCCCAGGGTT
CAGTCCTCAAGGGGCCATCCTGTCCCACCATGCAGTGGCCCTAGCTTAGA
GGCTCCCTCAATTCCCCCTGGCCACCACCCCCACTCTGTGCCTGACCTT
GAGGAGTCTTGTGTGCATTGCTGTGAATTAGCTCACTTGGTGATATGTCC
TATATTGGCTAAATTGAAACCTGGAATTGTGGGGCAATCTATTAATAGCT
GCCTTAAAGTCAGTAACCTACCCTTAGGGAGGCTGGGGGAAAAGGTTAGA
TTTTGTATTGAGGGTTTTTTGTGT
>488.1
GTTTTTTTTGTTTTTTTTTGGTGCTTTATTTTCAATATTTGTCTTATTA
ATATTTTCTTATTTTATAATGCAATTACAACGGTTTAGGAGACAAAACA
ATATAAACAAACGAATGTTAAATAGTTTTTTTAAAAATAGCTTGTTC
TTGCAAGAAAGTCCATATAATCTTATTCCCCCCTCAATATAATTTTATAC
TTTGCACTAAACCAAAATAGCTTATGGAAAATTAGTATTAAATAGCTAAA
CACAGAAAACCTACAGCTATAAATAACATAAAATACAGTTTAACTTTAAT
GTGATGCTTAAACAAAGCAAAC
>489.1
GGTGGCGGCGGACCGAAACCTGGTGAAGCCCTTTGGGCGATTGGTGATCA
CCCCTAGATCCGTGAAAGCTGGCTGCCCCCCCATCCGGGCAAGCAGGGCC
AAGGTGGCATCTTCACATTCCTGGAACCCACCCAGTAACAGCAGCAGGTA
TTTCTTCTGGTAAATGAGAGCCTTTGAAAACCTTTCTGCCCTCAAGTATT
TACCATAAATCTCTTTAAAGTGACATGTTGAGAATCAGGGCTCAGAGTT
TGAAGTAAAGAGTCATTTCTTAGTTTCAGCTTTCAATTTGTATAACTTTAG
CCTCTGCCCTTTTCAAAGATTTTGGAGAGTCAATTTTTCTTTGTTCAT
ACTTCTTTTTT
>490.1
AGTTTTCATCCGAATCCACTGGGGAATGGGACGATTTTGCTTTTGTCTT
TGGCCAGGAATCGCTTAATCCTGAAAGTCTTGTGAGAAGACATGGCGAGC
AGCGGAGTCAAGAACACACCACGATGGCGGAGAAAGGAAGAGGAGGCCCC
GCGTCCTGCCCG
>492.1
CGCGGTGGCGGCCGAGGTACATGAGAGATAATGTTATGACAAGAATAGTT
TCTGCAACATTAAGTATGGG
>492.2
TGGCTTGAATGAAATTACAAAGAGGAGGTGCATTAATAATACCAGCAGT
AAAATCTCTTGAAGAATTAATGACAGGCTAAAAATAAATATAA
>493.1
ACGCGGGGGTGGCGGCGTTGGGTTGAGCGGGCTTTTTGGAAGTTTGTGGC
GGAGTTCTGTGATATGAGCAACAATGGACCAGAAGATTTTATCTCTAGCA
GCAGAAAAACAGCAGACAACTGCAAGAATTTCTTGGGCAGGGCCTGGG
GAATGCTTTTTATCTCATATTAGTGCCTGTGATGGCATCTTTCATCTAA
CACGTGCTTTTGAAGATGATGATATCACGCACGTTGAAGGAAGTGTAGAT

Table 3

CCTATTCGAGATATAGAAATAATACATGAAGAGCTTCAGCTTAAAGATGA
GGAAATGATTGGGCCCATTATAGATAAACTAGAAAAGGTGCCTGTGAGAG
GAGGAGATAAAAACTAAACCTGAATATGATATAATGTGCAAAGTAAAA
TCCTGGGTATTAGATCAAAAGAAACCTGTTGCTTCTATCATGATTGGA
AT
>494.1
CGGTGGCGGCGGAGGTA CTGCTGTA AATTAGGCAGCCGTTCTG
CAGGGTTTTGCTTAGCCAGGCTCCTCTGAGATCTGGCTATTCTGTCTTGT
GGATTTTCAGTCCCCGCGTACCTGCCCGGGCGGTTGAGCGGTCTGTCGG
TCAGGTACATATACATTATGTAATTA AAAAGCGTGCATGTTTATGTATTA
AAAATAATTGGATTAAACAAATATTATATATACATTATAACACCTAAAC
GCATAGGCTGTTGTTATTCACAATAGTTATACCAATATTATTAATGA
>495.1
GATCTCAAGATCTGGACTTCTGTTGAAAAATTTCCACGTGAGGTTTACT
TATGTCTGTAAGATGGGAAAAAATACAAGAACATTGTTCTACTAAAAG
GATTAGAGGTCAATGATTATCATTTTAGAATGGTTAAGTCCTTACTG
AGCAACGATTTAAACCTTAATTTAAAAATGAGAGAAGAGTATGACAAAAT
TCAGATTGCTGACTTGATGGAAGAAAAGTC
>496.1
CGGGCAGGTACCGTGAAAAGGCACTTCTCCTTGAGAAGCCTGACAGTGTC
GTTAATGTCCTGCTGGCGCATGGTGAAAATTTGAGGGCAACAGTAAAGCA
CCCTCTTAATTTCCCTTCTCCAAGCCCAAGCTTTTGAGGTAAGTGGAG
CGCTTCTCATTTGCATAATAGGCAGTTTCAATAACTGGGGACTTT
>497.1
GAGCTACCGGGTGGCGGCCGAGGTA CTGGGAGCCTCATAAGGCTGGCTG
TTGAGGTGATTGACTGTGAAAGCCCGCATGTGAACTCACAAA
>498.1
ACAGGGCCTTCCACTTCAGCTGACTGAATTTAGGCAGTTCTGGCCACTTC
AGTTTCCGCACCCAGGCCTCCTGACCCATGGTATCTACGATGAGATCCAG
CTGTCCATTATACACCGTCACGTTGATCCCT
>499.1
GGGGGCGGCGGAGGTACCTCAATTGATGATTTCTGGTATGACCTAGCAAA
TACACTGCTTTCACTGAAATTTCACTCTTGAATCTGCTTTGGGTTCCCC
AATCTAAGACAGAAACATACTCATTTTCCCATCACTGGACTTCCAGGTTG
TTTTCAATTTTTAACTGTTACAAACAAGGTGGCAACATTTATCTACAAAC
CTCTGGATATACACGTAGGAAGCTTTTGGTATTTCCACTAGTGAAACTGC
TCAGTTGAAGGGTATGTGGATCTTCATCTTTAATAAATATTACCAACATG
TGAAAAGCCCGACAATGTCAAGGACTGGCAAGAGTGCCACATGTGATGGG
TGTGGAATGGCAGCTCACTGTAGCAGGTGCTGGGGACTCAATTGGGGTCT
TGGAGAAGCACTTAGTTATAGCAAGAATGTCTCATAA
>500.1
GGGGGTGCCCTAAATGAGTGAGCCTAACCTCACATTTAATTTGCCGTTTG
CGCCTCAACTTGCGCCCGCTTTCCAG
>501.1
TGTTAAAGCCTGGGGGTGCCTAATGAGTGGAGCTTAACTTCACAATTAA
ATTGCCG
>503.1
GCGGTGGCGGCGGAGGTA CTTTTTTTTTTTTTTTTTTTTTTTATGAATTAT
TTATTTTCTTTCTCAGAAAAGGATGCGCCTCCACTTAGCAAGGCTGGGCA
GGATGTGG
>504.1
TGCCTAATGAGGTGAGCTAACTCACATTAATTTGCGTTGCTGCTCACTGC
CCCGCTTTCCAGTCGGGAAAAC
>506.1
ACTCGTCTTGGTGAGAGCGTGAGCTGCTGAGATTTGGGAGTCTGCGCTAG
GCCCGCTTGAGTTCTGAGCCGATGGAAGAGTCACTCATGTTTGCACCC

Table 3

GCGGTGATGCGTGCTTTTCGCAAGAACAAGACTCTTGGCTATGGAGTCCC
CATGTTGATGGATCCTGAGCTTGAAAAAACTGAAAGAGAATAAAATATC
TTAGAGTCGGAATATGAGAAAATCAAAGACTCCAAGTTTGATGACTGGA
AGAATATTCGAGGACCCAGGCCTTGGGAAGATCCTGACCTTCTTCAAGGA
AGAAATCCAGAAAGCCTTAAGACTAAGACAACCTTGA CTCTGCTGATTCTT
TTTTCTTTTTTTTTTTTTAAATAAAAAATATTATTAAGTGGACCTCCTA
ATATATACTTCTATCAAGTGGAAAGGAAATTCCTCGGCCCATGGAACTTG
GATATGGGTAATTG
>507.1
GGTGGCGGCCGCCCGGGCAGGTACGCGGAAATCCCCTAACTTCCTTGCTA
TCTTCCCATCCCATATTTAGGTTAGATATGAGAAGTTGTGTAT
>509.1
CGGCCGAGGTACACTCCCACGACCACGGCATGGTCTCTTTCATATGGCTC
AA
>510.1
AGGCGGGGTGCGGGAGGCGGAAAAAAGAAATATACCCTGGCAGCGCTGC
CGGCCGGAAGCGGAGAGGGACGCTAAGATCAGCAAATTCGCCAGTTTGG
ATCCTTGTCTTTTCCGCCCTTTCCCCCATTAATCCAGAACCCGTCA
CATGATAATTA
>514.1
ACCTCCGAAATCTTACCTTCAGTCTTCTCTGCCACCCAGTCATTTATATG
CTTCCTGCACTCTTCAGTGTCTTCAGCAAAGGACAACTCCTCCAGCTCTG
CCTGATAGA ACTTCTGACAGTATTCTTTAAAGTCTGGAAGGAAATCACAC
GTCTTTTCTCCAAAGAGTCTGTTGGCAGTTCTAAGCAAGTACGCGGGGTA
AGCAGGAAGTGAAACACAGAGCTTCAAAAAAGAGCGGGACAGGGACAA
GCGTATCTAAGAGGCTGAACATGAATCCACAGATCAGAAATCCGATGGAG
CGGATGTATCGAGACACATTCTACGACAACCTTTGAAAACGAACCCATCCT
CTATGGTCGGAGCTACACTTGGCTGTGCTATGAAAGTGAATAAAGAGGG
GCCGCTCAAATCTCCTTTGGGACACAGGGGTCTTTCGAGGCCAGGTGTAT
TTC
>515.1
TGGAGCTCCCCGCGGTGGCGGTGAGGTACGCGGGGACGGCGGAGCTGGC
TCTCAGTGGAGGCGGGTTAATTTGCCCCACCGGAATGATCACCAGACA
CACAAAGTAGACCTTGGGCTCCAGAGAAGAAAAAGAAAGAAAGTGGT
CAAAGAACCAGAGACTCGATACTCAGTTTTAAACAATGATGATTACTTTG
CTGATGTTTCTCCTTTAAGAGCTACATCCCCCTCTAAGAGTGTGGCCAT
GGGCAGGCACCTGAGATGCCTCTAGTGAAGAAAAAAAAAAAAAAAAAAAA
AGTACCTGCCCCGGGCGGCCGCTCGACGTGGTTCGCGGCCGAGGTACAACTG
CAGTAAGAGGGACGGTTAATTCACAGCTTCAGCTCTTGGCGCCAGAGTC
CGATGCACTCCTGCAGATAACGGTCATTTCCATTCCGGGAGAACCTCTTC
GAAAAACAACCCGGATGAGACTATCTGGCAAATTGCAGCCCTTGGCGGGC
TTTTCAAATAG
>516.1
TTCCAGCATGTTGCATCTCTGCATTTATCCTATATCATTAAAAAGAACATA
AGTTATCATGGTGTGGGTAAATTAGC
>517.1
ACGCGGGGTGTTGATCCAGTTCTTGCTTTTCAACGAGAAGGATTTGGACGT
CAGAGTATGTCAGAAAAACGCACAAAGCAATTTTCAGATGCCAGTCAATT
GGATTTCTGTTAAACACGAAATCAAAAAGCATGGATTTAGTAGCTGACG
AGACTAACTCAATACAGTGGATGACTAGAAAGCAGGTTCTCCAGCAGA
GATGTGGGTCTTCCCTGGGTCTGAAGAAGTCAAGCTCATTGGAGAGTCT
GCAGACCGCAGTTGCCGAGGTGACTTTGAATGGGGATATTCTTTCCATC
GTCCA
>518.1
CCCCCAGGAGGGGGGGGGGCAAGCGGAAAAAACAAGACCCAAAGA
AAAAACAAGGGCACACAAAGC

Table 3

>519.1
ACCTTTGTCAGCAATTTTGACAGTCATTAATGTTTGTGATAATTTTAAAT
AAAGTGTG
>520.1
ACTATGTTGAATAAATGTTTTTTCCCTTTTAATTTTTCTGCTTCCCTAG
TGCATAGAA
>521.1
CCGGGCAGGACGCGGGCGGCTCTTAGCGGTGGATCACTCGGCTCGTGCGT
CGATGAAGAACGCAGCTAGCTGCGAGAATTAATGTGAATTGCAGGACACA
TTGATCATCGACACTTCGAACGCACTTGCGGCCCGGGTTCTCCCGGG
CTACCGCCTGTCTGAGCCGTCGCTTCAAAAAAAAAAAAA
>522.1
TTGGAGCTCCACGCGGTGGCGGCCGAGGTACACCTCCCCAAGCTCTCTTC
CTCCGGCTCTAGCTATATAAGACGTGCCTGCTTCCCTTCGCCTTCCACC
AAGACTGTAAGTTTCCTGAGGCCTCCCCAGCTTCTGTCATGCTTCTGTG
CAGCCTGCAGAACTGTAAGTCAATTAACCTCTTTCTTTATAAATTACC
CAGTCTCAGGTAGTTCTTCACAGCAATGTGAGAACAGACTAACAACAATC
AACTCATGGCTTTAACACAAAAAATAGGTAAGTTCAAAATTAACATAT
TACCACATCCAACCTCTTTATTCTTGAGAAAAACAAAAAGTCCAAATCA
AAGGAAAGCACCCGTTTTAAACCTCATATCTTCTCAGGGCTCACTGCA
GTCTGGCCATATCTCAAGCAGGTCT
>523.1
ACGCGGGGGAGTGAGAGGGAACGAGAGTAAGAGAAAGAAAGAGTGAGGG
GATGTAAACTCGAATAAATTTCAAAGTGCCTCCGAGGGATGCAACGGGCA
AAAAGTGAAGTGTTCAGGCTTCAGATTGTAAGTACGATCTGAGGAAAAA
TGAGGTTTGTGTGATTTTGTCTAAATGCATCACCACAGCGAATGGCTGC
CTTAGGACGCGACAAAGAGCTGAGTGATTACTGGATTTCAAGTGCATGT
TTTACCTCCTGTGAGCAGTGGGAAAAATGGACCAACTTCTTTGGCAAGT
GGACATTTTACTGGCTCAAATGTAGAAGACAGAAGTAGCTCAGGGTCCTG
GGGGAATGGAGGACATCCAAGCCCGTCCA
>524.1
TTGGAGCTCCACGCGGTGGCGGCCGAGGTACGCGGGGCTCTTGAGGAGTG
AGACTGCAGGAGATGTGGGCCGTGCCAAAGAGATGGATGAGACTGTTGCT
GAGTTCATCAAGAGGACCATCTTGAAATCCCATGAATGAAGTACAAAC
AATCCTGAAGGCCTGGGATTTTTGTCTGAAAAATCAACTGCAGACTGTAA
ATTTCCGACAGAGAAAGGAATCTGTAGTTCAGCACTTGATCCATCTGTGT
GAGGAAAAGCGTGCAAGTATCAGTGATGCTGCCCT
>526.1
TAAACCTTAATGTCTTCCTTTTTTTCTCACTGGGTTTTTCATAGATCGA
GACATGTAAGCAGCATCATGGAGGTAAGTTTTTGACCTTGAGAAAATGTT
TTTGTTCCTGCTGCTGAGGACTATTTATAGACAGCTCTAACATGATAAC
CCTCACTATGTGGAGAACATTGACAGAGTAACATTTTTTTGGGGAAGAA
GAATCCTACAGGGTCATGTTCCCTTCTCCTGTGGAGTGGGGGGGGAAGGT
GTATGGCCCCAGGGATGGCCATATTACTGACCCTCTACAGAGAGGGCAAA
GGAAGTCCAGTATGGTATTGCAGGATAAAGGCAGGTGGTTACCCACATT
ACCTGCAAGGCTTTGATCTTTCTTGCCATTTCCACATTGGACATCTCT
GCTGAGGAGAGAAAATGAACCACTCTTT
>527.1
ACTCACAGTCACGCTCCTCTGAACCATCCTTGGGCTTCATGGGGTTGGCA
TTGAGGATCCCTACGACAGTCCCTGCTCCGTCTTCCAGAGCGCTTTGTG
AACTTCTCCAAATAAGAACAAGGACACACATTGTGTGAGGTACGAAGAT
CATTGAGTTTCCATATGCTGAAGGTTTTTCCACTATTCACACTCTGTGGC
GTAACCTTCTTCAATATAACCCCAAATGTCACCCAATCTATTTCTCCAG
CTTCTCTCTGGCCATCTTTCTCTGATCTGAGACAGTCTGATCAGTTT
>529.1
CTCCCCGCGGTGGTGGCGGCCGAGGTACATTGTATACTGCAGTGTGCTCTAC

Table 3

ATGGCATTGGACAGGACATAATGTA AACATAAAAGTGCAATTGTTACAC
TTACATATGATAGTGAATGGCAACGTGACCAATTTTGGTCTCAAGTTAA
AATACCAAAAACTATTACAGTGTCTACTGGATTATGTCTATATGACAAA
>530.1
TTGGAGCTCCACGCGGTGGCGGCCGAGGTACTTGGAACCCATTTGGATT
AATTAGAGGTCTGTCTGAAGGAGTTGAAGCTTTATTCTATGAACCTTCC
AGGGTGCTGTTCAAGGCCCTGAAGAATTTGCAGAGGGGTTAGTGATTGGA
GTGAGAAGCCTCTTTGGACACACAGTAGGTGGTGCAGCAGGAGTTGTATC
TCGAATCACCGGTTCTGTTGGGAAAGGTTTGGCAGCAATTACAATGGACA
AGGAATATCAGCAAAAAAAAAAAAAAAAAAAAAAGTACCTGCCC
>531.1
CTTCCCTGATAATAAATCACTGGAGAACAAAAGCGAATAACAGCAGGTCT
CTCTT
>532.1
TAACACTCTTAGAAGACTGGTTTGTTCAATTTGACATTGGGACGTGCACCA
ATTTTTATTACAAAAATCAAAAAAGTAAAAATTATTACAATATTTGCAGA
GTATAACCACTAGTTGCCTAGACAAAAGCTAATTTCTACAAAATCAAAAA
CTTAATGCAGTTTTATTAAGAGAGTCAAAATTCTCTCAGTTAACTGGATA
TACATAGTGGTATATATCTTAAAGCAGAAAACCCCAAAAAACAAAAACAA
GGAAAAAAGAAAAATACATGTCAACAGTCAGTTAAATATTTTGACCTGACA
GTTTCTACAAATAGTGATTTTCACTACATATAAAGGAATCTGTTACATGT
GGTAAACCTCCAGAAACCAAGTAGGAAGTGTGGAATAAAAACAATAAAT
TCAAACGCAGCCCCAGGCTGGGCCTGTTTTTCATG
>534.1
TCTGCAGATGAAAAAGCAGCTGAAAGGAGTCGTAAGGCTGGACCAATAAC
CCTAAAACTGAAGCCTGATTACTGGAGTGACAACTATTGAAAAGAGCAG
AAGCGTTTGCTTATTATCGCCGGACACACACTGCCAATGAGCGGCGGCGG
CGTGGTGAAATGAGGGATCTCTTTGAGAAATTAAGATCACTATTTGGAT
TACTTCATTCTTCCAAGGTTTCCAAAAGTCTCATTCTTACTCGAGCCTTC
AGTGAAATTCAGGGACTAACAGATCAGGCAGACAAATTGATAGGACAGAA
AAATCTCCTGACTCGAAAACGGAATATTCTGATACGGAAGTATCGTCTC
TTTCAGGTAAGACAGAAGAAGTGGTCCTGAAGAAGCTAGAGTATATTTAT
GCAAAACAGCAAGCACT
>538.1
CGGCGGGTTTTGGAACACTGGACTGGATGGCACATGATCCAGAACTCCG
CTCCGTTTGGCTTCCCAAGGATCCCACCAACTCATTCTAATCAGCGATCA
CTGTTTTAATTTCTTTTT
>538.2
CACAGATCAGGCCTACCTCATTGGCATATTAAGAAAGTTGTCTCAAGTAT
ATTTAGTGTATCATTTTACTATAGTTCTTCAAATGACTGACATTCATC
TTTTCCCTACCTCTAAATTCCTTTCTTTTTCACATTATCTTTCTTGATTG
CTTTTAATAGAAAAACA
>538.3
ACAAAGACATGGATTTACTGTGCATATTAGCAGATCCATACTGGAAAATG
CATGGAGGTTTCATATACACCACTTAC
>539.1
AGAAAATCTGAGACACGTGAGGCCAGACAAAGCAAGGCCGGGGCTGATGG
CCTGGCTGCCTGGTGGTTGATGGTTTTGCTCCCCCTACCTTTTTTTTTGA
GTTTATTCTGATTGATTTTTTTCTTGTTTCTGGATAAACCACCCTCTG
GGGACAGGATAATAAAACATGTAATATTTTAAAGAGGAAAAAAAAAAAA
AAAAAAAAAGGGCCCCGGGCCCTCTAAAAATAGAGGGTCCCC
>540.1
ACTTTATTTGCTAAAAAATGCTAATGATATCCAAACCATCAGCTACTTG
TAATCTTTTGGCTGGTGGAGGGTTTTGTCTCAATTTTGGTGGCTGCTGAC
TGATCAGCGTGGTGGTTGCTGAAGGTTGGAGTGGTTGTGG
>541.1

Table 3

CACCGCGGCGGCGGCCTGATGTACTTTTTTTTTTTTTTTTGTAAAA
GACACAAGTAGTGATATATCAACATCTGTTAACTCGTGACCGTTTCTTT
TTTTCAACTTCTTTTTCTTTTCAGTGCTTTCTTCTCCATTACCTTTTC
CTGATTTCCACTTTTCAGTTTCCATTCTGCTATCTTCTGGTAGCCACA
GCTCAGCTCCAATCTGCGAAATACGGCACTCTCTTTATTGACTACTGCTT
CTCTCGGCCCCCGCGCTGGCC
>542.1
GCGGCGGCGGCGGCGGTACAAAATGTTAAGACGTTGTTTGTATTGTAAAG
GCTGGTGTATTGAGAGCATATCTCTTATTCTCACTTTCCACCCCCGT
ATTTTGTAAATGACCATGATCAATGTTTTACTTTTTGTATAATGGGGTGG
GGTGGAGTGGGGGCTATTGACAGTCACCCTGAGGTCTTAGAGGACCAGC
TATTGTATCACCTTGGATACTTGAAGTTTAATGCTCAGTTGGGTGCGGTG
GCATTTGACTTGGAGGCTGGCATGTTACCAGAGCCTGGGGCCCTGTATC
TGGGCAGCCTTTGAGGATTACTTATGATATTGAATGACAGTCTTAAGTGG
CAACTCAGCCCAGCTCATGCCCTTTTTGCCTGGACATGTGCTATTTTT
AT
>543.1
GACACACCATGCACGCAAAACAAATTGCAATAATGTGATAAGTTCTTTAA
AAGAGGTAAGAGCAACGTGCTTTGGGAGCAGAGAAGAGGGAGAAAGCAGC
ATCTTGCCTGGATGAGCCAGGGGACACAGAAGAGAAGCCCACTATCTCAT
TTAATCTTTACAACCTCTCTTGCAAGGTTCCCTGGTTGTGAAAATACATGA
GATGAATCATGAAGGCCACTATCATCCTCCTTCTGCTTGCACAAGTTTCC
TGGGCTGGACCGTTTCAACAGAGAGGCTTATTTGACTTTATGCTAGAAGA
TGAGGCTTCTGGGATAGGCCCAGAAGTTCTGATGACCGCGACTTCGAGC
CCTCCCTATGCCAGTGTCGCCCTTCCGCTGTCAATGCCAT
>544.1
TGGCGGCGGAGGACACAATACTTACTTACAAATTTAATACTGCTTCAAGG
TATTTAATCTAAATTTTACCACTTTGATTTGTCTGGTTAGGATATTTT
GTTTTAGTGGATATGCTTTAATTCGGATCAATTACTGCAGTAAATCTCAT
CCCTAAGCATGAAATGTTGTCAACAAATACCCAGTTCCATTTAGTTATCA
ATTAGCCCAAATAGAGATACAAAGTATAACAGTGACCAACCTTGACCT
GCCCCGGGCGGCGCTCGACCACTGACATAGACTGAAAGCAAGAAGAGTGC
TGTGTTTGTGCTATATCCCCTCCAACACCTAAGGCAATGCATTTACAT
CTTGCTGAGAGCAGATAACTCAATACCTGGAAGTAGAAAATTAGAATCTA
AAAGACGGAAGGCATCTAAAGAACAGTTCCCATCATGCCACAGCTGAGAA
AT
>545.1
TGTTTCTGTGTGAAATTTGTTATCCGCTTCACAAATTCACACAACATT
AC
>546.1
CCGGGCAGGTACCTGATGCAGGGAATTGAAGCCAGACCCAAAACGGGCAA
CCCAATAGGATGGCCATCTGCCCCATTAATGCCAGCTTGTCCAAGTGTA
TTATTAACAGTGCCCCCTTCACTCTCAAAGAGTCCCTGTCCAGACAGG
TAATTGTGAAAGTCGCCTTCAAATGACTGGCCGGTAAGGAAAGTGGAGT
GAGGGAAGCAGGGTAGGTGGAGGTGTGAAAGGGAGAAGGGCCTCATCTCA
GGGTGGCTGGACCTGCACCAGCATCGGCCTGCATGAATGTGCTCCTACTC
TTGCCCAGGCTGAGTATCAAGAGAAGCAAGAAATCTAGATAAAAATCCAA
ATCCAGAAACATCAGCGTTTTGAGGTTAACATGTTGGCAATTATTAGCT
TTATGA
>547.1
GGGCGCGGAGTCAGGTAAGCCCTGGCTGCCTCCACCCACTCCAGGGAGA
CCAAAAGCCTTCATACATCTCAAGTTGGGGGACAAAAAAGGGGAAGGGG
GGGCACGAAGGCTCATCATTCAAATAAAACAAAATAAA
>548.1
GGTACCCTTTGTAATATCCTTTATATAAACAGTAAATGCTGTTTCCCTG
AGTCTGTGACCTGCTCTGGCAAATTAATCAAACCAAGAAGGGGGTTGT

Table 3

GGGAACCCCAATTTATAGCTATTCAGTCAGAAAAAACAGGTTAGACAAT
CTGGGGCTTGGCACTGGCATTGGAAGTGGGGGACAGTTGTGCGGGGCTCA
GCCTTCAACCTGTGGGATCTGACGCTATCTCTGGGTAGATGAAGTAGAAT
TGAAGTGGGGGACACCCAGCTGGTGTCCACTGCAGAATGAATTGCTTGCT
TGATGTCTAGGGAGGCCGAGCAATTATAGCAGGAGGTGAAAAGCACTTCT
TATTAGCAGTGGCAAGAGAAAATGAGAAGGAGCAAAAGCTGAAACTCCTG
ATAAACCAATCATGATCTCATGAGGCTCATTAACATAACAAGAATAGCAT
GGGAAAGACT
>549.1
TGGAAACGCTGCAACGATTGTCTGAGTCGTATAGCGTCTATGTACATATAG
CAT
>549.2
ATAGTCATTGGTGTAGAGATAGAAAATGCTTCGTACATGTCAATGGGAGA
ATGGGTGGTACCACTACACCGGAATATCCCTAAGTCCATCCGCCTGGGG
CGAAAGGAAGGAAAAAAGA
>550.1
CTGTGGAGAACCTACGCACTGCACGCCATGCCTGTTTCCTACTCAAGCCT
CAAGACTTCTACCTTGATCTGCTTGCCTTCCTTGACCATCTACCTAGAAC
TAACCGAGTCCCAGCTCCCAACCTGGCATGAGCTTGGACAGGGTGGACCG
CCACCCTGCCTGAACCATGGAGACAGCC
>551.1
GGCGGCCGAGGTACATTAGCAAAAACAGTGGACTTTGTGACCTTGAAAAA
GTCATTTAACATCTCTGAACCCCTACTTTCTAAGTCTCTACAAGTAATATA
TAGTGGGTGAGGTGTTCTTTCTTTGTTCTGTTACTCGGATGTGAACTCT
CCTTTTGTAGATGAAACCATTGCGTAAGTAATATAAAGACTTTTCCCTGT
AGTTATCTTACAGACTGGAGAGAGTGCTAGTGAATGCTTTTGTCTTCAAT
GCCCATCTCTTGGAATATTGAAGGTGGAGTAGCAACCGGGCATTATATT
ATCTCTTGGAAGGACCTCAGCAATGGAGAATATCCCCATCATCACAAC
TGTCATCACTCTGCCGCACGTGATTGTGGAGAATATCCCTCTCCATGTGA
ATGCAGAATGAGATTCATTTACAAAACGAA
>552.1
TGGCCGGCCGCCCGGGCAGGTAACAATGATTCTGAAGCACAGTGTATT
CAGACAGATACAGTGAACCAAGTGAATATGTAAGGATGAAAGAAGAAGA
GATGACAAAGAAATCCAAGTAAATGCCTTGCTTTGCAAATGTTTTATA
TTAAATCATAAGGGGAAGGAACTACTGCCTTAAATGTTATCAAAAGAGTT
TTCTAACAAGGTTAATACCTTAGTTCTTAACATTTTTTTCTTTATGTGT
AGTGTTTTCTATGCTACCTTGGTAGGAAACTTATTTACAAACCATATTA
AGGCTAATTTAAATATAAATAAATAAAGTGCTCTGAATAAAGCAGAAAT
ATATTACAGTTCATTCCACAGAAAGGCATTCCAAACCAACCAATGACCA
AGGCATATATAGTATTTGGAGGAATCAGGGGTTTGAAGGAGTACGGAGG
AGAATGAAGGAAAATGCAACCAGCATGATTATA
>553.1
TGGCGGCCGAGGTACCCATCTCTGCCCATCACCGCTGGAATTTTGATGAC
CTATTGGAAAAGATCTGGGACTATCTGAACTAGTGAGAAATTTACACCAA
ACCCAAAGGCCAGTTACCAGATTACACATCCCAGTGGTGCTTCTTACT
TCGAGCGGCCGCCCGGGCAGGGACTTCACACCAAACACTAGCTCAAGCAC
TGACGTTATTCTACAGGACTATGAACCTTCATATCCACATTTACAGTCCG
GACAGATAAAGGAAAAACAACCCAAATCCAGGAGGCAATATAAAGGAAGA
GAACAAAACACACATTCATACACTCACACTTAAAAATAGGGGAAGACCAA
CAGGGGAACCTTCGTTCTCTTCTGGATGTCTACTTAAAAATCCCATGTGG
T
>554.1
TGGCGGCCGAGGTACTCTTGAGATTGCTTTAAATTTTGATTGAAACAAC
AATACATTTTGCAGTGTAGTAATGGGAGCACTAATCTTACAACAGTTAG
TGAATCGTTTAAAGAATCAGTTCAGTGTAGACATTTGAAAAGATTGTT
TCTGTGCTCTACAATAGCTTAGTGCAATGTGCACTTCTGTTTACTTGC

Table 3

CATTTTCCTGCTCTGTTTTCTCTGTGACATGAAGCAACAGAACTGAGAT
CAAAGTTAAGATTATATCCTGTTTGTAGTATCAGATATTTTCTGTGTAC
ATTTACATTCAAGTTGATAACACTGGTGGTTTCATTTCAATACAAATTAT
GCTAGAGAACTGACATTTTCAGACATGGTCATATATATGCTATTTGAATT
CCTTTATCTTGATACAGATCTTGATTGTGAATCTCTGATGATAGATGTGC
AGCTAATTTGTCCCGAAACTCATGAAGAT
>555.1
TGGCGGCCGCCCGGGCAGGTACAAGACCATGACACGCCCAAACACTTCC
TGCAGATGTTGTCGTTGGAAAACCTGTCGTCTTACAGAAGCCAGTTGCAAG
GACCTTGCTGCTGTCTTGGTTGTCAGCAAGAAGCTGACACACCTGTGCTT
GGCCAAAAACCCATTGGGGATACAGGGGTGAAGTTTCTGTGTGAGGGCT
TGAGTTACCCTGATTGTAACTGCAGACCTTGGTGTACAGCAATGCAGC
ATAACCAAGCTTGGCTGTAGATATCTCTCAGAGGCGCTCCAAGAAGCCTG
CAGCCTCACAAACCTGGACTTGAGTATCAACCAGATAGCTCGTGGATTGT
GGATTCTCTGTCAGGCATTAGAGAATCCAACTGTAACTAAAACACCTA
CGGTTGAAGACCTATGAACTAATTTGGAAATC
>556.1
TGGCGGCCGAGGTACGCGGGGGGGGAGTGGCACTCGCAGCTGCAGCAAAT
CTCAAAATAAAGAGGCAACGGCCTTTCTCTTCTCTCCATCTCTCTATAG
CACACCTTTTATTTCTTTCTTTCTTTTAAAGCCTCACGAAAGATTTTA
CTTGTAGATCAACTTTCAAATGTAGGAAGTCAGAATGGGTGACATCATC
AGAAAAATATGTGGAGCTGATCACAAGAAGTGAAGAACCCAGAGCACGAA
AGCGGTTGTGACTCCTGGGCCCAGGGAGTTGACAGCGTCTGGGCTTCAGA
GGAGCCAGCGCCTCCGAGTTGTCTTGAAGTGAAGGCTCTGCTGTAGTCCTG
TTCTTCTGGCTCTAAGATCTGAATGTTGTGACCACTAATTTGCTCTTTCC
TGGAGGGTAACCCAGTTTGGTCCACAAGGCTTGCTGCCAATCTTTTGC
AACAGTTGAACCA
>557.1
CTCCGGGTGGCGGCCGAGGTACTGGATGTCAGGTCTGCGAACTTCTTAG
ATTTTGACCTCAGTCCATAAACCACACTATCACCTCGGCCATCATATGTG
TCTACTGTGGGGACAACCTGGAGTGAAAACCTTCGGTTGCTGGCAGGTCCGT
GGGAAAATCAGTGACCAGTTCATCAGATTCATCAGAATGGTGAGACTCAT
CAGACTGGTGAGAATCATCAGTGTCATCTACA
>557.2
ACGCGGGGGGAGCGGGCCCTACCGTGTGCGCAGAAAGAGGAGGCGCTTGC
CTTCAGCTTGTGGGAAATCCCGAAGATGGCCAAAGACAACCTCAACTGTTT
GTTGCTTCCAGGGCCTGCTGATTTTGGAAATGTGATTATTGGGTTGGTG
CGGGATTGCCCTGACTCCGGAGTGCATCTTCTTTGGATCTGACCAACACA
GCCTCTACCCACTGCTTGAAGC
>559.1
TGGCGGCCGCCCGGGCAGGTACGCGGGGGGTGCCTGGCTCCGTTTCCTGC
TTTTGGTTCTTACAGTAGTCGGCGTAGGCCCTTAGGTGGGTTCTGCGCCT
TCTACCTCGCTGTTTCGGTTTCTGCTGCTCCTCGGCCCTTTCTCCCCTG
TTGCAGCTGGGAGCGGACGAAGCGCGAAGCTGGGATTTTTACTGTCTCC
TGAAGAATTTAACACAAACATGGATATCAGACCAAATCATACAATTTATA
TCAACAATATGAATGACAAAATTAAGGAAGAATTGAAGAGATCCCTA
TATGCCCTGTTTTCTCAATTTGGTCATGTGGTGGACATTGTGGCTTAAA
>560.1
CGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGTATCG
GCAAGCGACGCTTAGACAGGCGTAGCCCCGGGAGGAACCGGGGCCGCAA
GTGCGTTTCAAGTGTGATGATCAATGTGTCCTGCAATTCACATTAATTC
TCGCAGCTAGCTTGCCTTCTATCGACGCACGAGCCGAGTGATCCACCGC
TAAGAGTCGCCCCGGGTC
>561.1
CGGGTGGCGGGCAGGTACCATGTGGGAAGCGCTGTGAAGAGTTGTTGCC
TTTCAAGATATACCCAAATTCAGTTCAGCCCGTGTCAATAAAACTCC

Table 3

GCTGGCGTGAAAAGATGACGTCCTTAGCCCCAGCAGCTGCAACGACTCGCCC
TCCCTCAAAGGGATGCCAGCCTTTTATTTAGAGATGAAGTTGCTTCTTTG
TTATTTGACCTAAGGAAGCGGCCACAAATTGACAGGGACACCGTCTTCGC
CATTGGTGAGCCATCTTTAACTTAGAAAAGCTCTTGAAGCGTTTGT
TCTGGATGTTACTGTTTTTTTTCCCCCTGTTTTCTCTTCTGTACCCGT
GCTCTTCCTAACAGTTTCTGCATGTTGATGTATA
>563.1
CGATAAGCTTGATATCCGAATTCCTTGCAGCCCCGGGGGGGATTCCCAC
TTAAGTTTTCTTAAGAAGCCGGGCCCGCCCCGGGGGCAAGGGTTACC
CCCCGGGGGGGGGCCCGG
>564.1
ACCAAGTAGGATAATTACTACTGCCAACACACACATGCACGCATGCACAC
ACACACACAGATGTATGCACGCACACACACTCTCACTCCTAGACTGCTAA
AAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAGTCCC
>565.1
GCCAGACGCTCCTTATGAAAGTACCAAGAAGTGGAAGCGGGGTGAGCTG
CTGAAGATTTTTGGTATCGACAGGGATGCCATTGCACAAGCTGTGAGGGG
CCTCATCACAAGGCCTAGGGCGGGTATGAAGTGTTGGGGCGGGGTCTAT
ACATTCCTGAGATTCTGGGAAAGGGGCTCAAAG
>566.1
TACGCGGGGGGGGACTGGAGGACCTGTCTGGTTATTATACAGACGCATAA
CTGGAGGTGGGATCCACACAGCTCAGAACAGCTGGATCTTGCTCAGTCTC
TGCCAGGGGAAGATTCTTGGAGGAGGCCCTGCAGCGACATGGAGGGAGC
TGCTTTGCTGAGAGTCTCTGTCTCTGCATCTGGATGAGTGCACTTTTCC
TTTGTGTGGGAGTGAGGGCAGAGGAAGCTGGAGCGAGGGTGCAACAAAAC
GTTCCAAGTGGGACAGATACTGGAGATCCTCAAAGTAAGCCCCCTCGGTGA
CTGGGCTGCTGGCACCATGGACCCAGAGAGCAGTATCTTTATTGAGGATG
CCATTAAGTATTTCAAGGAAAAAGTGAGCACACAGAATCTGCTACTCCTG
CTGACTG
>568.1
CTTGGCGGGCGCTTTAACCCGAGGACCCCTCCCCCGCGTACGCTGGATA
GCCTTTTTTCAGAAAGAGAGAGTAGCGCGAGCACAGCTAAGGCCACGGA
GCGAGACATCTCGGCCGAATGCTGTCAGCTTCAGGAATCCCCGCGTACC
TGCCCTTTTCTTTTT
>569.1
GGGAAAAATTTCTTTTTTTAGATGTCCACAAAAAGGACATGTAAAGGGG
AAGGTCAAGTTGTTGAGACAGCTACTTTATTCTTGGGATGACTG
>569.2
GGAGGTGGTGGAGATGAGCCTTGTTTGCCAGATTTCCGTTCTAGTTCAC
GAGTCGTTGACCCACAAGT
>571.1
CTGTAAGAGGGACCTCTCATGGTTACAGGCTTTGACAACCCAGAATCAAA
CTGGAGAACATTCCGAAGCCGTTCTTATAAGTGTCTCCATCTCTACCTGG
GCTGAAATGGAATGTGCAAATGTAGCCCAGCCTGGTCCTTGGGTGTTGCC
AGTTGATTGATGACTGGGAGCCAAAGTGGCATTCTTTGACCTAAACGG
GCGATGATGAAATAAATCGAGCGGCCCGCCGGGCAGGTACATCTGTGAAT
GTGAATGCCAAAGCGAAGGCATCCCTGAAAGTCCCAAGTGTCATGAAGGA
AATGGGACATTTGAGTGTGGCGCGTGCAAGTGAAGGGCGTGTTGG
TAGACATTGTGAATGCAGCACAGATGAAGTTAACAG
>572.1
GCCTCTACTTCCTCTGATAAAAAATGTTGGGAAAACACCTGAATTAAGGA
AGACTCATGCAACTTGTTTTCTGGCAATGAAAGCAGCAAATTAGAAAATG
AGTCCAACTATTGTCATTAAACACTGATAAACTTTATG
>573.1
AAAGGAAAACAAAAAGCGCAAGCCGGACACACACACAGGACAGCGAAGG
GCAAC

Table 3

>576.1
TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGTAGGAGCCTCTCT
CCCTACTGCTGCTACACAAGACCCTGAGACTGACCTGCAGGACGAAACCA
TGAAGAGCCTGATCCTTCTTGCCATCC

>577.1
ACAGAGACCTCCTTACTTACCCCCCTTCTCCTTCGGCTGGAGCTCGGCGA
GCGAGAGGCGGCGCTGGCGTTGGAGAGCGACGGCGGCCCGCGTAAGCA
GTGGTAACAACGCAGAGTAACGCGGGAATGAAGAATCTTAGGCGGGTGCA
CCCAGTTTCCACCATGATTAAGGGTCTTTACGGAATAAAGGATGATGTCT
TCCTTAGTGTTCTTGCATTTTGGGACAGAATGGAATCTCAGACCTTGTG
AAGGTGACTCTGACTTCTGAGGAAGAGGCCCGTTTGAAGAAGAGTGCAGA
TACACTTTGGGGGATCCAAAAGGAGCTGCAATTTAAAGTCTTCTGATGT
CATATCATTTCACTGTCTAGGCTACAAC

>578.1
TTGGAGCTCCACGCGGTGGCCCCGCCGCGGAGGTACCTCACAACGAGTTC
AGTCAGTAGCAGAAGGATCTTCTCTCTTGTCTCTGATGATTTCAAGGTCC
TCACAGTCTGATAATCTGGTTCTTCCCGAAACTCCCAAATATCTATGGA
GAGCTGTTCTAGCTTTTGCACAGGGAACCAAGTGGACAGAGGTATCATTAA
ACATGTCCATGTATTGCGAAGTCTGAGGAAACTCAAGCTCCTCCAGTCCT
TTTAAATCTTTGCAATGTAGGGATAATTTTCTGCAGAATCCTTGCCAA
CAACCTCTCCTCAAGTCCTTTGAACTGTTCCCAATGATGACCATCTTAG
AAAGGGCATCTACTGACCAGTTACTCCATAAAAGATTGTTGTACCTCGGC
CGCTCTAG

>579.1
GGTGGCGGCCGAGGTACTTTGGACAGTGAGGGTTCGATTCATTTTAGGGG
TAGGGTTGGGGGTGGGAGTGGGAGTGTGGGTTGGCAGGAGGAAGAATGAG
TCTACTTTGGAGACAATTAAGTCATGGTACTTTTTTTTTTTTTTTTTT
TTTTTTGGCTACATAGACATCTTCTCATGTATTGTTACTAGAACAAC
TGTATAGGGTTTTATGGTTTGGGGAAAACATTTTAAAAAATGGACTTAT
CTCTATTATACAGAGTTATAATATAAAAAATGATTTAAAGGCTATATTTT
CAGCATGTAGGTAGCTACACTGTAATCCTGTTGAAGAACTTTCTATTT
AAGCTTATAGGATGAAAAATATAAATTAAGTCTTCTGATCATAGCTT

>580.1
ACCATCCAAATGCTTCCCTGGTCTTGATGATCTCTTCCAGAGTCGATCTG
AGTGGCCTTTTCTGCACCCTCCCCTTCTTCTCTTTGAATGGAATTAAC
CCAATTTGGAAACAACATTGACCCAGTCAAAAGCTTCTAATGGTTTCTTT
TTCTTCCCTCCAGTTTATGTTTCTTTTATTAAGAAAGAAATAGTGCAT
GGCCATAGCTCCTTCAGTTCTCTTATTGCAGACTAACCATCAGGATGGTA
TCAAAGCACAAATACTTTGGAGGGGAATGCGTTGAAGTGGGGCAAGT

>581.1
AGGGCCGGTTTTGCCGTTATTGGGGGCGCCTCTTTTCGCTTTTCTCGCTT
CACTTGACTTCGCTGGCGC

>582.1
TTTTAGAGATGAGCTACCCGCGGTGGCGGCCGAGGTACCAAATTGTAAAA
TACTCGAAGGCCTTCAGGAACCTGTGACTGATTTACATAAATACCAGAAC
CTATTTTGGATGAGGTAAAAGACATGTGCTCATCTCCAATTACAGTTTCA
AGCTGCTGTCGGCCAACCCTATCAGCGGGGAGGCCACAAAGCATAAGAAT
TCTTTTGGGATTACACTGACATCAATAATTTTATCACTATCTTCCATTA
CACTATTGTGCACATTAAGCCAATTTTCTGATCATCACA

>583.1
CAGACAAGCTTTTCATTTTTTTTTCAAATCCGACATCTACTCCAACCTACAT
GATACACTAAAGTGCTTGCTGTGTGGGCTTCCAGGGGAGATGAAATGGTA
AGTCGGGCTGCAGCATCTCTGTTCAAAATATACCAATTTCTGTTTCTC
AATGGCACTAATCATAAACGGCTCGCCCTTTGGGATCCACAGCTAAGAACT
GGCCAGGAACGA

>584.1

Table 3

GAGCTACCCGCGGTGGCGGCTGAGGGACATTACGTATTGGTTATACAACA
TTTGTTTAATAAATGCAACTAACAAAGCTACACAAGACTTAGATATTGAA
GCAGAAAAGGTGGTTTTACAGTCCCTGCATTAACCTCTAATTCTTACTAC
CCTGGCCAAGAAAGCATTTTCACCTCCTGCGCTTTCCTTCCTGTGTGCTT
GTGGTTGGTTCTTTCTTCTCAGGCTTTCTTATTCTGATGCTGAGATAGTT
CTGTTCACTTAGCAACTTGGGACAGTGACACAGGGTTTGTCTGTACAAG
CAGGTTATCCAAGAGGCATCCATACCCTGGGTTTTCTCCAACCATAAGG
AAAATTGATGCAGCTGTTTCTGACAAGGAAAAGAAGAAAACATACTTCTT
TGCAGCGGACAAATACTG
>585.1
TAGTACCTGGGCCACCAAACACAGCTGGACTCAATATATGGGGAAGGTAA
GTGTCCTCAGTTTTTGGAGAGAGATTACCCTCTTCCAAAAGAGTGCTTGA
TTCTGGTAGTCCAAGCTGTCTCCGTCTGGTGGCACCCCAATTTCCCCTGC
CTAGACCCACCTCCTTTCCTCAGCCCCCTTCGCTGCCGCTGAAAAGTGA
GAGCGGGCTCTTGCGTCCCCCGCT
>587.1
TTGGAGCTCCCCGCGGTGGCGGCTTCGGGTACAGCTTTAAAGCATCATAA
TGACTAATTATAGGTGAATAATTTACAGACAGTCTATATTCTAGGAGGC
AGCTGTAGGCGTTTTAATTGGAAATAAGCATTCTGAGATAATGATAATAG
CAGTGTAGAAAAATGAAGCTAAAAAAATTCAAAGTGTTGAGAATCCTCCT
GTCCTTCTGGGATTTTTATTTAATCATCTCCTCCACAGAGAACAAGCAG
>587.2
TTTTTTTTTTTTTTTTTTGGGGTTTTATTTATGCACAAAGAGCCATCGT
GGTTTTTTATTAGGTAGATGCCCTGGATAATCCTTTCAAGGAAGATCACT
TAGTCCAACCTAATGAAACCAATATCCTTCGCATACT
>588.1
TGGACAGGGAAGAGACCAACGACTGGATCCTTCCCTCAGACTATGATCAT
GCAGAGGCAGAAAGCCAGGCACCTGGTCTATGAATCAGACCAAATCAAGGT
TTTTTGTCTCCAAGGAGGAGATCGCTGACAAGTATGACTTATTTGTTG
GCAGCCAGGCCGAGATTTTGGGGAGGCCTTAGT
>589.1
CCAGGGTCTCTGGTCTACCGATGTCAAAGCAAATCAGCACAGCATCCGAA
TCAGGGTAAGAGAGGGGGCGGACATTGTCATAGTAAGGAGAATCCGAATT
TTCCACAGGCTCAACTCTATTCTTTGTGTGTCGATTTCAAAGTGGCCG
TGTAATTCTCAAACACTGTAGGAACGTAATTCTCGGGGAAGCAGTCCCTG
GCGAAGACATGGAGCAGCGCAGTTTTTCCACACTGACTGTCTCCCACCAC
AACTATCTTGCAT
>591.1
TTGGAGCTCCACGCGGTGGCGGTGCGCCGGCAGGTAAGTCTCAGGTTTTATCT
CTGCACTCCAAGTAGGATGAATAGATAAGAGCAAAGGCTCATGTTTGCCA
AGTCTGTCTTTTGTAAACAAAAAACCAGCAGCTTTATCAAGCAGAATTC
CACCTGTATTTCTTAACTTGCCAGAGCTGAGTCTCATGGCCACCCTTAGC
AGGAGTTGGGGAGGTATTTTAAACAGGCACATTATCATCTCCCCACCC
AAAGTGGAGCTATTGCTAATGAAAAAGATACAATGAGATGTTTATGAAAT
TATCTGTAGCTATTAATGTCAGGTTTTTGAAATTTACTGACCTGGAAGAA
TACTCATAATGCAATGTCAAGTGAGAAGCAGGACAAAGAACATTTGCAAT
ACAG
>592.1
CCCGATTTAAATTTGGTGAGAAGTTCCTTCGGCTGGGCTGAGGACCCGAG
GTCATGGGTGGATCTCATGGAGAGAGGGCGAGGACAGGGGACCGGTCTCC
CAAAGGAGT
>593.1
CCGCGGTGGCGGCCCGCCGGGCAGGTACATAACTCCCGCAGGATCTCAGG
GCCTGCCGCCCATATGATGATGTGAGGTTTTTCATCCTGCAGCTGGAG
GGAGAGAAACACTGGCGCCTCTACCACCCCACTGTGCCCTGGCAGGAGA
GTACCT

Table 3

>594.1
GTGCGATTCTGGATGACAAAGAAGATGCTTACTTCACAGAAATTCGAAAT
TTCATTGGGAACAGCAACCATGGCAGCCAATCTCCAGGAATGTGGAGGA
GAGAATGAATGGCAGTCATTTTAAAGATGAAAAGGCTTTGTCGAGCGGCC
GCCCAGGCGAGGTACTTT
>594.2
TTTTTTTTTTTTTTTTTAAAGGAGCTTTTATTGTTTTAGTAATCTTA
ACATAACTTAAAAAAGAGAGGGGAAATGACATCTGGAGATCTAGGTATG
TGGCCCATTTGCAATTGAGCACATTTCTTGGGTCTGTTTCTCTATCTCTAA
GGGCAGTCTCAAAACCCCAGCTCAAAATACGACACTAACATGATGAACAT
GCATGAGCTTTGAAAAGTGCTCTGTAGTCTTATGATGATCTAGAAGAGCA
CTGTCCAATAGAACTTTCTGTGATGATGAAAAGATTCTACTTTTGA
>595.1
TCACGGGTGGCGGCCGCCGCGGCAGGACATGGCCACCAAGTAAGAATGGT
TGGTGACAACGACAGAAGGCTAAAAACAGGAAGGTAATCTTGTGCACCTGA
CAAATAGAAAGAATAAAGGATCAAAATTGAAGGCA
>596.1
GGTGGCGGCCGCCGCGGCAGGTACTATTTAAGAAAAGAACAAGGTAACT
AACTAAAAGCAGAACTCACTTATTTTTGCTCCCTAGCCAATTAATAAATA
AGTTCAATAAAAGCAGCTTGAATATATATTTAACCTGAAAAAAGTTGC
TAAATTCCAATATAAATGTAATATCTTTAAGTTGCTTAACCCAGCTAT
CCCCAAAACAGTGAGTGGGGCAAAATGTTCAAAAGAAAAATCATCCAGT
GCACGTAGATGGGCACCAAGAAGCTAAGCTTCCCTGGCGCCTAC
>597.1
CACTTTTTTTTTTTTTTTTTTTTTGAGTTACTCTGATGTTTATTTTA
ATGCATCTTAGTCCACACAGTTGGTATAAAATCAGAAAATGCAAGCAAA
AACAAAAGGTCTGGAGTCTTAGCATCAGAAGGGCACCATATATACATCTA
CAGTTGGTGGCCAATACAAGTCATTGCCAGACAGTCCCTTGGAGGCACAGA
ACAGCCCAGACCCAGCCAAGCTCTAGGAACTCACGGGTCCCAGGGAGTTC
TAAACCTTGTCTGATGCTCCAACCGTAAAAAAATGTGGGAGTGATGA
AGGCTTTATGATTTACTCATTATCCCGCGT
>598.1
AAAGGCGCTGGGTGTTCAAAATAGGCTCTCCTGGCCACGGCTGACTGTC
TTCTTGTGTCTCTACAGTGGACGTGACTCTGGACCCAGACACGGCCTAC
CCAGCCTGATCCTCTCTGATAATCTGCGGCAAGTGCGGTACAGTTACCT
CCAACAGGACCTGCCTGACAACCCCGAGAGGTTCAATCTGTTTCCCTGTG
TCTTGGGCTCTCCATGCTTCATCGCCGGGAGACATTATTGGGAGGTAGAG
GTGGGAGATAAAGCCAAGTGGACCATAGGTGTCTGTGAAGACTCAGTGTG
CAGAAAAGGTGGAGTAACCTCAGCCCCCAGAATGGATTCTGGGCAGTGT
CTTTGTGGTATGGGAAAGAATTATGG
>599.1
GTCCGGTAGAAAATAGAGGTTCTGACTCCTCAGGAGCAAAAAACATAACC
TGAAGAGGGAGGAAGTGGATTTGGGGTTCACCATTTCTTGGGGCACACTT
GATTGAAAACCTGAGACTTCTGAAGAGAAGGCCAGAAGATACAAAGACAGA
CCATGCCAGTTGAATGCTGTCTTCCAAGAACAGAAGAAAATGATCCAGGC
CCAGGAATCCATAACACTGGAGGATGTGGCTGTGGACTTCACTTGGGAGG
AGTGGCAACTCCTGGGCGCTGCTCAGAAGGACCTGTACCGGGACGTGATG
TTGGAGAACTACAGCAACCTGGTGGCAGTGGGGTATCAAGCCAGCAAACC
GGATGCACTCTTCAAGTTGGAACAAGGGGAACAACCGTGGACAATTGAAG
ATGGAATCCACAGTGGAGCCTGT
>600.1
TGGCCCAGGTGACCAATGGCCGCGAGGCTCCATGGCGGCTGGCTTCTTCCA
GCCCTTCATGTACCGCGCTTCCAGGGGGCCCCCGGCCACCCCTGCGGA
TGCCGAGTCAGCCTCCCGCAGGCCTCCCTGGCTCCAGCCCTCCTCCCT
GGCGCCATGGAGCCCTCCCCACGAGCCAGGGGCATCCGAGCATGGGCGG
CCCAATGCAGAGGGTGACGCCTCCTCGTGGCATGGCCAGCGTGGGGCCCC

Table 3

AGAGCTATGGAGGTGGCATGCGACCCCCACCCAACTCCCTCGCCGGCCCA
GGCCTGCCTGCCATGAACATGGGCCCAGGAGTTCGTGGCCCGTGGGCCAG
CCCCAGTGGAACCTTCGATCCCCTACTGCTTCTCATCCCCCGGCAGCTAC
ACCGGACCCCCAGGAGGGAGGTGGGCCCCCTGGAACACCCATCATGCCTA
GCCCTGGAGATTC
>601.1
AATCTGAAAGTCAGAGGTGATTATTGATAGTACTTTTGTATTTTGATATG
GACAGTTTATTCATTTGCATACAGTTATTGACTTTTTCCAGCTGATTAA
AAGATAGTCAAGAAATTCTGCAATATAGCTGCCAAAATAGACAGCTACAT
TTTTATGATATTGTCATCTTTTCTG
>601.2
TTTTTTTTCTTTTTTTCTTTAGCTATTTTACTTAAGCATAATAGCCAC
AATAGGACATATAAAAGATTATAAATACAGAGCTTTATTATCTTGACGTC
TTGGGTCTTTAAGTATATACTTTTCTGAAAGGTATCCATTTTGT
>602.1
CATCTGCGTGGGCGGCCAAGATCGGAGCAGCGACGCTGCGGGCTACCCCC
ATGCCACCCATGACCTGTAGGGACCACTCTAGATGCCTACTCGACTCAA
GGACAACACACCATGTCTCCGCTCGATCTGGCCAAGCTGAACCAGGTGGC
AAGACAACAGTCTCACTTTGCCATGACGCACGGCGGGACCGGATTCGCCG
GAATTGACTCCAGCTCTCCAGAGGTGAAAGGCTATTGGGCAAGTTTTGGA
TGCATCTACTCAAACACCCATGAACTCACCATTTCCAAAAAATAATT
GGCTGCATAAATCGGGCGCCAAG
>603.1
CGTCCGGGAAAAATTACCTGTCTTGACTGCCATGTGTTTCATCATCTTAAG
TATTGTAAGCTGCTATGTATGGATTTAAACCGTAATCATATCTTTTTCT
ATCTATCTGAGGCACTGGTGGAAATAAAAAACCTGTATTTTACTTTGTT
GCAGATAGTCTTGCCGCATCTTGCAAGTTGCAGAGATGGTGGAGCTAGA
AAAAAAAAAAAAAAAAAGCCCTTTTCAGTTTGTGCACTGTGTATGGTCCGT
GTAGATTGATGCAGAATTTTCTGAAATGAAATGTTTGTAGACCGAGAA
TCATACCGGGTAAAGCAGGAAATGACAAAGCTTGCTTTTTCTGGTATGTT
TCTAGGATGTATTGTGACTTTTAACTGTTATATTA
>603.2
ATTGCCAATATTAAGTAAATATAGGATTATAATATTGTATAGGGGTTTTT
ACAAAGCTTTAGACCTTTTA
>604.1
GCGTCCGAGACAATACAAAGTTACATTTTTGGACCATATTAACCTGCAA
GAAGACAGGGGTCTTACTGAAGATCTTTTAGAAAACCTTAATCCTGTCAC
AGGATATTTAGACATGTGTAGAATGTAGCTCAATTTTTTAAAAAGTAACT
GACCTAGAGGGTGAAAGTTGAACTGACACATTTTCAAATTAAGATTATG
CTTTATTTTGTAAACAGAAAACAATGTTTAAACACAAGCAGATCTGTTGTA
TGTAATAAGTAACACAGAGTTTTTAAACAAATTTAATTATTTAGCTTT
ATTGAAGTTTTGTTTTTTCTTCCGAACCTGGAGTTATCATAATTATAA
AACAGCAGTTTTACACCAGAATTAGCAGTGCCCT
>605.1
AGCTCCCCCGGGTGGCGGCCGAGGTACCCAAATACCACTTCAGGAAATCT
GGCCAGATCACCTGAATCCAAATGTTCTATTAATTCAATACACGTTATCA
AGTCAAATCCAAGCAAACGAGAGTCTCTCTCCACAACGGAGCCATGATAC
AATGTGATGGTCAAATTCAGATCCCGAGGTTTCAGAAAATCCCCAGGAA
AGGAGCTAACGAATCCCCTCTCCATCGTAATTTATCCTCATTAAATCTA
CTCCAACAAGCAATTCAATGCATGGATTGACTTTTAGCAGCCTTAAGAGT
GAAGTATCACCACATCCCAGGTCTGCAACCTTCTTAGGCTCATGTTGATC
CACTAAATTTTTAACGAAGTGGT
>606.1
GAGCTACCGCGGTGGCGGCCGGGTACTTAAATAATTACTGGCAGTAGGT
TATAATTGGTGGTTTAAATAACATTGGAATACAGGACTTGTGCCAAT
TGGGTAATTTTCATTAGTTGTTTTGTTTGTGTTTGAACCTGGAAA

Table 3

TACAGTAAATTTGACTGTTTAAATGTTGGCCAAAAAAAAAAAAAAAAAAAA
AAAAAAGGTCCGCGGGGGCGGAGGTCAGGGACAAGATGGTGCCACCGGTG
CAGGTCTCTCCGCTCATCAAG
>607.1
GCCGATGAGAAGAAGAAGGGGGCCCAAAGTCACCGTCAAGGTGTATTTGA
CCTACGAATTGGAGATGAAGATGTAGGCCGGGTGATCTTTGGTCTCTTCG
GAAAGACTGTTCCAAAAACAGTGGATAATTTTGTGGCCTTAGCTACAGGA
GAGAAAGGATTTGGCTACAAAAACAGCAAATTCATCGTGAATCAAGGA
CTTTATGATCCAGGGCGGAGACTTCACCAGGGGAGATGGCACAGGAGGAA
AAAAAAAAAAAAAAAAAAAAAAAAAAGGT
>608.1
AGCTCACCGCGGTGGCGGCCGAGGTATGCGGGAGCTGAGAGAACAGACAC
AGACCTGTGCGAAGGTCCTCTGCAGGTCCCCCTCCGCTCTGCCGATCGA
CTTCCGCCTCGGGCAGTCAACATACTGCCAAGGAAATCTGATGTGGAAAG
GAAAATAGAAATAGTGCAGTTTGCTAGCCGGACACGCCAACTCTTCGTTT
GATTATTAGCTTTAGTGAATGGGCTAATAATGCTGGCAAAGTGGA
TGTGCGATGATTTCAAGCTTTTATAGATCAGCAAGCCATCCTGTTTGTGA
CACTGCTGATCGCCTGGCCTCGTTAGCTAGAGATGCTCTGGTCCATGCAC
GCCTGCCTAGTTTTGCCATCCCATATGCCATTGATGT
>609.1
GTGGCGGCCCGCCCGCAGGTAATCCGCCTTGCCGTTAGCTTGTTGAGAA
CGTGCTTCTTATTCCTGGCAGGCTTCAAGAACAGCTGCACATGTGCCGCT
AACTGACCGCGTTGCCATTGGCGACCTGGACTCTGAACTCAGGTTTATTC
TAAACCCAGTGAGAGGTGAGGGGGAGTGATGAAAGGGGATCAGCTGTATT
TGTGTGTGTGTGTGTGTGAGCACCTGACAAATCTATGAAACCGAGTGAAA
GGAGAAATGTTAGATTCTTTATTATTTTATTATTTATATGGAAAGCTC
GACTCTCCCTTTGGTAAGTCCGAAGCATGTTGTCTGTTCCGTCGACTG
TCTTCTCAGGTCTGTGGCCTGTGATTTCCAGTCACCCCTGTAGTTACTG
ACAGGAAATTGACTGGACT
>610.1
TTTTTTCCTATATAAAGTGATACTGAAATATGCTAATTAATATATTAATT
TTAGTTAAATGCTGCTAATATGCATACCTCTTACTTGAAGGTTTTTAATA
TGTTTTGATAACTTTAATAACTTCAGGTGATGTCTGTATAATTTTAAAG
TGCAGCTCTCTCTAACAATGTGCCCTACAACCTCTGATTAAACGGCGTC
TTGAAGGTTCAAAAAAAAAAAAAAAAAAAAAAAGGT
>612.1
GTGGCGGCCCGCCCGGCGCAGGTACCAAAGAAGATGCAGTTCAAAATACTGC
CAGTTTTCCAAGAAATTTGTAAAGTTGAACATGGCCATCTACTCTTGCC
TTAAACTTTTCTCACCACACCCACCTTCCACATGCATGATATCCAAGG
TCGACAGACCTGGATTAGAATCCACTCTCAAGCTTCTCATGCAGTGCGTA
TTGTATTTTCTGCATAAGAAAGGGCTGCCTCTAGAACACAGTAAGTGTAT
TTGCCAGTAGTGACATTGCCTACATATAGCCAAGTGTTATAGTATACCA
ACTTAGTATATTTTCAAGGAGAGCTAAACCACCTTTTGTAAATGGTTTGG
TTTCTCACTGTTATCTTCTTCTTCTATAATTAATTTATTTAATCTACAA
ATTGACATAGGGCTAAAAGCTTCAATATTTACAAAATATTAATTAATGT
AATTGTTCCCAATTATTAGAACTTTTTTCCATTT
>613.1
GGGGAAAGGAAAGCTAACTCCACGTCTGTTCCAAAGGCCTCTGCTGGTAT
TTACTTTACGAGAGGCCACCTTATCCAAAGAGCTATATGCCCTGGGGGG
CCTTGATGGGCTTACACAGTACCTGCC
>614.1
AAGAAACATTCTTTATAAATTTTGATCCCTCCGTTCAAGCCAATACCATA
ATTTAATTACAGATGGATATTATATGGTAACGGGTATTTACAGAAGGAAG
GGTGTATTACGGAAAAAGCTAACGGGCACGACGTTTATTTTCCCCACA
ATCTTTCATACAGGAATAACAAATTGAACTTGCAAAAGCACTAAACAT
CACATGTAACCCAGCTAACAGAAAAATACATTCACAAGCGTTGTTGGTG

Table 3

GTGGTGTGTATGTGTGTGCTATGGGTCAATGTGCTGAAGAAACAGAAGGG
AGACTTTGGCACGGCTCATTTTTTTCAGTCTATAGTTACATGAAGTTTAC
AATTAGGTT
>615.1
TTTTTTTTTTTTTTTTAATTTTCCATGTATTGGCCTTAATCAAACATA
AGCTGTGGAGTGGCCAATATACTCCATTGTGATTATACACTGATTCCAT
CACCTGCCCTTGTACTATCAACTCTTATTAGATTAAAGGA
>616.1
GAGGTACTGTGCCCTCTTTCTTCACTAGGTGACCAGAGTGGTTTTGACTC
CTGTGGTGTGTTGAAGTCATTCTCAGGGGTCTCTATGACCTTTCCCTCCT
GCAGTTCACTCTAGTTTCTTCTATTTTATCATCCGCACTGCTCTTAGCAT
CGAAGTCACTGTCTGCATCTGGTTCTCTACTTTCACATCAGTTTGAAGAA
TGCATTTT
>617.1
ACTAGCCTAAAAGCCCGTGACACTTGCAGCAGGTGCTTGCCACGCTTGCA
CCCGTCCGAAAGAAAACGCGGGCTAAAAGCGCGAGTCTGGTGACTTTGG
CACCCAACCGTGCAA
>617.2
GTTCCGCGTGCCGGCCAATTCAAGCAAGGTGGCAACCGGGACTTGGGCCG
TTCAA
>618.1
TCACCGCGGTGGCGGCCGAGGTACTGGGACAGTTGGGTGCGTTATGGATC
ATAACCTGAGGAGCCGGGGGAAGCTGGCCTTGGGTGTTTTACCTCAATCA
TATATCCACACAAGTGCTTCTCTTGACATTTCTCGAAAATGGGAGAAGAA
GAATAAAATTGTTTATCCTCCACAACTGCCTGGAGAACCTGAGACCAGCA
GAAATCTACCACTGTCGAAGACAAATAAAATATAGCAAAGACAAGATGTG
GTATTTGGCAAAATTGATACGAGGAATGTCTATTGACCAGGCCCTTGGCTC
AGTTGGAATTCAATGACAAAAAAGGGGCCAAAATAATTAAAGAGGTTCTT
TTAGAAGCACAAAGATATGGCAGTGAGAGACCATAACGTGGAATTCAGGTC
CAATTTATATATAGCTGAGTCCACCTCGGGACGAGGCCAGTGCCTGAAAC
GCATCCGCTACCATGGCAGAGGTCGCTTTGGGATCATGGAGAAGGTTTAT
TGCCATTATTTGTGAAGTTGGTGGAAGGGCCCCCA
>619.1
ACCGCGGTGGCGGACGAGGTACCTACTATGTGTCAGCCATGGGGGATACA
AAGATCTATAAGGCACAAGACCCTCAGTCTTGAGTCGCCTGACAGCCAG
CCAGCTACAACATAATGTGGAAAGGACAATGGTGGGAAATGCACTCAGGT
CTTCCTAATGCACAGAGTATGCTCAGGCTGTGACATAGGAA
>619.2
GGACTTGGAGGGACCTTCAAAAAACATGTGATGGTGAGGAAATCCAGTTT
TAAAAGTCTTGATTTAAAAAAGAAAACACTTTCTGTGGATAAAGATAG
GCTGCAGGAAATGTAACCTATGAAATTTCTCAAATTAGCTTTTACAGACAC
ACACAAAAAATTGCATTTGTTTGAGGAGCAGAATGTAACCTATATTAAG
AATAAACTACTATTTAGTATCTGAGTGAAGT
>620.1
GGGCAGGTACATTCTAATTTTTATGAGACATAGATATGTATTTATAAAAA
GATAGATGGAAAGAGAAGAAATTAACCTAATTCTAAGAGCCAAATTTACT
CAGAAGGTTTAGAAACACCAAAATTAACAGCCAGTTTTCTTGATTTTCTT
CTTGAAGAAGAGATTGGTGTTGACTATGGTGAGATATACTATGGCCTTGA
GAGGCAGTTTCAACTTGAAAAGAAGATGCAGGTTGAGCAATCGGAGAGGA
CTTCAAAGAAGCTGATGAGCTCTCCCGTGGACTTACTTTGACAATGTTGG
AAGAATCTGGCTGGCTAGTCTGAACTGGAGTGGCTTGAGAACTCTGGGCT
TCCTTATTCTCAAAGTTCTTTTGTGTTGCAAACCTTTTTTTAGTAACCT
GCAGAGGTATAAACTGATTGTGCACACCCCTGGTATTTCCCCCAGCCATG
GGCATGGTCCCAGAATATAAAGTATGATGGAAGGGCTTCCCAGGAAGTGG
CACCGATGGTCCCCATGGCATTGAGCCAAAGAGATGAGA
>621.1

Table 3

CGCGGTGGCGGCCGAGGTTAACGACGCCTGCCCATGACAGAGCCTAGGAA
ATCGCGATGACAGTTTACAGCAGGTAAAATCCGGTGGAGACCAGCAGCAT
CCCCGAGAAGCCGTGCGATTGTTGGGCGTATGTAACCTCGCTGGTACTCT
TGCGCCAG
>622.1
GAGCTCACCGCGGTGGCGGCCGAGGTACATTTATTTTACAGATAAGGACAAT
AAGTTTACTTTGTATCTGAACTCAAAACAAAGTAGTTGTATATTTTAAACA
TTCAAAATTGGGATTTCCCAATGTGACACATCATGAATGCAAACCCCTCC
AGCCCATCAGACGCCAGGCTGCCTACTGGTAATCTGTGTATAGTATATAA
ACATGTAAAAATAGGTTGTATTTACTCTATGTATGATGCTAATCAATGA
ACACTTTATTTATTTTACAGAGAAAACCTTATCTGTGAACCTTACTATATA
TCT
>623.1
CGCGGGGCGGCCGCCCGGGCAGGTACAGCCATTGCTCTTTGAGTTTGTCT
GGCTAGCAAAAAGCTGGCTGTGTTATGTAAATAAAGCCCTATAGTAATT
AAAATTTAAAAAAGTTTTTTAAGCTGGCTGTTTTCTACCACTTCAGAG
TCCTTGACCCCGTAATTTAGGTCCCCTTCAGATTTGACAGACAGAAACAA
ACAACAAAACAGTTAAGCAAACTAACAATGGTCACACAAATTATACAAT
TTCTGAGTGCTCTAAGTGCAATTGGAAGAAAGCTGAACTCCATAAAAACA
TCACCTGCCTTCCATCATCATGAAAGCAGGAAAACCTGCCTTCTTGTG
>624.1
GGTGGCGGCCGAGGTACGGCGGGGAGCCGCTGGATACCGCAGCTAGGAA
TAATGGAATAGGACCGCGGTTCTATTTTGTGGTTTTCGGAACTGAGGCC
ATGATTAAGA
>625.1
CAGGTACAACTGATCTTCATGAATGTGTGGTCCACTGCTTTTCTGTTTC
TGTCACAGTAGCTATAAACAGCTGTTTAAGGATATCCTTATCTAAATTC
TGCCAATGAGGACCAATCGATTTGTTCTCTCAGTGTATCCTTCCAGCTC
ACTGAGTCTCTCACATAGAGCTCATCCCGCGT
>626.1
GATGAGTCCTAGGAGGCGCTGGCTCTTTGGCGGCTCGGAGGAGCGGCTGC
TGCTGCTGCTGCTGCTGCTGGTGGCCCTTTGCAGATGTATTGCTGTCT
TGAATATTAGCCATTTGAAAACGCCTGGGAAGTTCAGCCATCAGTATGT
CAGTA
>627.1
ACTTTTTCTTCAGAAAAATTCTCCTTGAGGAAAAATGTCCAAGATAAGAT
GAATCACTTAATACCGTATCTTCTAAATTTGAAATATAATTCTGTTTGTG
ACCTGTTTTAAATGAACCAAAACCAATCATACTTTTTCTTTGAATTTAGC
AACCTAGAAACACACATTTCTTTGAATTTAGGTGATACCTAAATCCTTCT
TATGTTTCTAAATTTTGTGATTCTATAAAACACATCATCAATAAAATAGT
GGCAAAAAAAAAAAAAAAAAA
>628.1
GGAAGACGGAGGCGGGTTCTACAAGAGACGTAGGCTGTCAGGGAAGTGTT
TATTCGCGTCCGCTTCTGTTCTCCGCGCCCTGTGCTGCTCCGACTCA
CATACTCGTCCAGAACCGGCCTCAGCCTCTCCGCGCAGAAGTGCCGGAGC
CATGGCGGTACCT
>629.1
CGCGGTGGCGGCCGAGGTACAGACGACGTACCGTATATCTTCTTTTCGG
CCAGTGAGGATATCACCGAAGAGGACTTAGAAAATGTTGCCATACTGT
TCGAGATAAAATCTATGATAAAGTTCTGGGTAACACGTGCCATCAGTGT
GACAAAAGACCATCGACACCAAGACAGTGTGTGAACAGTGTGTGGTGT
GCGAGGACAGTTCTGTGGACCATGCCTGCGGAACCGCTATGGGGAGGATG
TCAGATCGGCATTGCTGGACCCGATTGGGTGTGTCCCCCTGTCGTGGG
ATCTGCAATTGCAGCTACTGTGCGGAAGC
>630.1
ACATAGTGTGCGGAACCTCAAATCGGCATTTAGATAGATCCAGTGGTTTAA

Table 3

ACGGCACGTTTTGCTTATAAAAAAGTGCAAAAAAGATGTGGTTTACAA
GTAAAGCTACAGAATCCCTTTTTGCTGTAATTGCACCAGTTTTAAAGCC
TCTGGACAGAGCAGATCGTTTAAACTTTGTTTTCTTAAAGCTTACAG
TGTTTGGCTAATTCTCCTCCCCTTTTTACAAGACGGGGGCCGGAGGGTGG
ACACTGGTGGCAGGTTAAGGGATACTGTCACTTTAAAGAAGCCTGCAGATT
GAAGTGTAACATGGAGAAATTAGGGGCTGATTTTTTAACTGTGTGAGA
TATTAACCAGCCGCCCTGTTATAAAATCAGGAAATCCAAACAGCGATTTA
CACCGATTAACACCCCTTTATATATTTTTACAAAAATACACTGAGAAA
ATAATCAAACGTTTTCTCTCTCTTTTGTCTTTTTTGTTTTTTAAAGTG
CAAAAGTCTACATTTAAATAT
>631.1
CATCAGCTTGCCTCAAGTCTGGAAAGAAATTGGCTTGGGCTCATCAAGTT
GAAGGGACCACAAAAGAGCTAAGATTGCTTGTAACTCATGTGGCCCC
TAGGATGCACCGACTGGTAGTGATGAGCCAGGTTTACAAGCAGACACTGG
CTAAGAGCTCAGACACTCTGGCGGGGCACATGTAAAGATTCATCGTTGC
AACGAATCTTTTATATATCTGCTCTCTCCCTTACGATCTGTGACAATTGA
GAAGTGCAGGAATAGCATCTTTGTCTTGGGCCCTGTAGGGACTACACTTC
ACCTCCACAGTTGTGACAATGTTAAAGTCATTGCTGTTTCCCATCGTTG
TCCATCTCTTCTACAACAGGTTGCATCTT
>632.1
CGGCCGAGGTACCACACTCAGGGCAGTTTCCAGCTCCTCTCACAAACAGT
AAATCTACACAACTTTACAGAGAGTGTGTCCGCACACATTCACCATCAG
CTTCAAGGAGGGGTTCCGATATTTGGTGGTCTTACACCGAGGGCAACCCT
GATCGTCCATGGCGGTTTCCCTCCTACAGACTCTCGCAGGCGCCTGTTT
AGCCAGAGCCACCTACAAGCCCCCTCCCGCGTACCACCACACTGTCCCA
AATTACCTCTTCATTACCCAAATCAAAGAATCTTTCTGTTTTCCAATCC
TCAAAAGGAATGAAGAAAAACCAAGAGCAAACCTCAAAGATGATTTTTA
CCATAAACCTCAAATGTGGCTTAACAAGTACCTGCCCCGGCGGC
>633.1
ATTGCTGTTTGTGTTGTTTGTGTTGAAGACCAAGACGGAGTTGGGCCTCTTG
ATTCCCAGTGGCTGCAAGAACTGGGATTCCCTCTCCTTCTCTCTTCCC
CTCTCCCCCGCGT
>634.1
TTGGAGCTCCACCGCGTGTGGCGGCCGCCGGGCGAGGTAAGTAAACAC
TTCCAGAGTCTAAAGCAGCTCAGATGTTATCTCTGGGGGAATTAGTGTC
CCCTCATTTAGCAACCTCCATACCACAAGGTCTCTGTCTGTAGTTACTGG
GATTATCCAGATACACTATCAATGATACAAATTCATAGGAGTATTAATGC
ATTTCTTTAAACACAACCTTGATTAAGAAGCAAATATGTTAAGCAGTTTT
TTTTCTGCTGCTAAATTACAGTTAGACACTTCAGTATCTTCTTTACA
TGTGTATATAAATTAGTAAGAACCTGCATCCAAAGCAATGTAGTGTGTGT
ATGTATCTATATATATTTATTCTAATCAGCACTTCAGAAGCCTTTTTGA
GTTACAACAATTTTTAGTTTTGCCTCATCTGTAGAGGTAATTTCTATA
TTACCAAGCTCCAGAGGAATATGATATTTTACAGGCACAATTTCTGGCT
GTAGTCCCTGGGCGATTATTTGCTTGCCTCCATGGGATGCTGTTAGAAC
AATTGTTAGCCGGCAAGAGAAGAAAGGCTACCAGGACA
>635.1
CCGCGGTGGCGGCCGAGGTACAGATGATGAAGCTTCCAGAGCTTATCTGA
TCTCTTAGACAGAACTCACATAAACACACAAATACAAGAGGTTATTTCA
AGACACACACTTGCAAGTAATCTTTCTATAGAAATGGCCACAGCATTATA
ATATTCAAAATATGGAAGATTGACAGTCTGAGGATTTCTAGGAAAAAAA
ATCAAAGGACTTGCCAAAAGGATAACTACATAACAGATATGACAATCTAC
AGGACAAAAAGACAACATGTCACCAAATATTGTTCATACAACAGCGTTAA
TGGAAAAACAGTAAACACCTTTTAGCAGTGTGCATGTTAAGTCTTTAGT
AAGATTATCTGTAATGAGGTTTGAAGTAAATCACTTAGTAGACAAAGTA
AACCACCACAGAACCAAGGAATAGCACCCATCACTGCTGCTTTGTCACTCC
AGAAAGCTGAAAGTCAACCGAACAATGAAAAAAGTCAAAGAAGCATTTC

Table 3

CCTTTGAATTCAGTCCTAAAAATATGAATGCCTTATAATTAATTTCAAAA
TAAGTATCTTACAAGTGTTTCATGAAACATTGTTTTCCTAAAAGGCAAAT
TCAACATTATGAAAATATATATTTTGGCCGGTAGTACTGAGAAATGTC
>636.1
CGGTGGCGGCCGAGGTACTAAAGGGCAAGGTTCACTACTACAAAAAGGAA
GTTGTCTAAAAGCAAGAATTCATTAACGCTGGGTAAGAAAAGTCAAAAC
ACTAATGAGTTGTCCATGAAGCCAAGTCTAAGAACGCGCTCAACTATAC
GCGACATGAAGACACTACGCACGAAGCCTTACTTGGCGAGTCTGAATTTT
TATTAATAAGGGCAGAGTGAGGGAGAACAAGAGCTACTTCCGTAACAT
TTAGTATCCAGATAGT
>637.1
AGCTCACCGCGGTGGCGGCCGAGGTACAGGAAAGGGAAGCACAGTTTGA
ACAACAGCAGAGATATATGCCTATCGAGAAGAACAGGATTTTGAATTGA
GATAGTGAAAGTGAAAGCAATTGGAAGACAAAGGTTCAAAGTCTTGAGC
TAAGAACACAGTCAGATGGAATCCAGCAAGCTAAAGTGCAAATCTTCCC
GAATGTGTGTTGCCTTCAACCATGTCTGCAGTTCAATTAGAATCCCTCAA
TAAGTGCCAGATATTTCTTCAAACCTGTCTCAAGAGAAGACCAATGTT
CATATAAATGGTGGCAGAAATACCAGAAGAGAAAGTTTCATTGTGCAAAT
CTAATTCATGGCCTCGCTGGCTGTATTCTTATATGATGCTGAGACCTT
AATGGACAGAATCAAGAAACAGCTACGTGAATGGGATGAAATCTAAAAG
ATGATTCTCTTCTTCAAATCCAATAGATTTTTCTACAGAGTAGCTGCTT
GTCTTCTATTGATGATGTATTGAGAATT
>638.1
GGTGGCGGCCGCCCGGGCAGGTACGCGGGAGAAAACCTTCAATTTA
CTGTGAACATCTTCTGACTGTGGCTTCCAGATGCTAGTTTACAGAACAAC
CACACAGCAAGACCAAGCTTATGCTGAGTTGACGGAACAATGAGTAAACA
TAAGGATATTACTGTGACTTTGAAATTCTGAAATTGTTCTTTCTTAACCT
TTGCATTAAAATCACATTTATTTTATAAAATAATG
>639.1
CGCGGTGGCGGCCGCCCGGCACAGGTCCTGGCCCTTAATCCCATCAGATT
TGATAGCTTAACCGAGCAGTCACCGAGGCCTCGGAAGTCCCTTTCAGCT
CCAGCTTTACCCACATCAGCTGCTAGACGGGT
>640.1
CGCGGTGGCGGCCGCCCGGCAGGACGCGGGGGGCTGTCTACCGGTGAGAC
CTGGAAGCGGGCGAGTCTCGTGCTGTGTCGGACCTGCAGTCCCTGGCCTT
CCGCCACCATGGAGT
>641.1
ACGCGGGTCTTCAGAAACCAGGCTGCTTTCAGGAACATTGCTGTGGATT
CCAGCTTTTACAGACAACACATGACTAAGACAGAATGAGACCACTCTAGTTG
CCTCATGGGAAACTCGGGAAAAGACTGCAAAAACAACATTGTTTCTCCCT
TTGGAATTCTGGAGTTATAAGGCAGAGGTCCCCATCTTCCCGAACTGGC
CTATTCCGCTAGAAGCAAGATGGCTGAACTCAATACTCATGTGAATGTCA
AGGAAAAGATCTATGCAGTTAGATCAGTTGTTCCCAACAAAAGCAATAAT
GAAATAGTCCTGGTGCTCCAACAGTTTGATTTTAAATGTGGATAAAGCCGT
GCAAGCCTTTGTGGATGGCAGTGCAATTCAAGTTCTAAAAGAATGGAATA
TGAC
>642.1
CGGGGGCGGCCCGGGACTTGGAGAATATTTCCACAATAGCCGATGACTTGT
TCTTGTGACAAAGAGAAAGTTCTTTGGCTGTTACCCTCAATGATAGTGAG
GTCCATTGCCGTCTATTAATGGAGATGATTCCATCTTGTCTACAGACAC
TGAAATACCTGGCTAAAAGCCGCTTTCCTCTGCGCTGCTACCAGCCCTG
TCAGAGTCCCGGCGCTTACCTCCCCGCGT
>643.1
TGAGCTCCCGCGGTGGCGGCCGAGGCACGAGAAGCTCACTGGCTGTGCTA
AACCAAATGAATGGAAGCGCCAAAAGTGATTTTATACCAAGGGTCCATC
CATACAAATAAACAAAATCCTATCCTCTTCTTCTATATTGTGTTTCTTA

Table 3

CATTTCTTATACAAATAACAGAATGCTTCATTTTATTCACTTCAATAGGA
CAAAGTCCTTAAAGAAAGACTGAAAAGAGCTGATAATCAAAATCCCAAAT
TTTATGCTTATTTTTGGTTTAGGGCTATCAATTTTCTGACATATTAACAT
AGGCAGGAAAACATTCTCAGTAAATTGAGCATTGAGTCTACAAATGTCT
TGAAGCACTCTGGCAAGTTACATGTATCCCATGTTGCTTTTGGTTTCCCA
TCTCTTCTTTGCTTCAAACCCCCATGCAAGTTTCTTCTTTTTCGGGCAG
GCTGTGAATATTCAACCTCCTTTTTGGCTTTTACAAAGGTGTGGCAGGCA
ACTGCTTTGGCAATTTTTAC
>644.1
CGCGGTGGCGGCCGAGGTACACCCTCTGGCCTCTCCAAGCAAGCAGTGAG
GTGTGCATTGTTAGAGGTGCACCGGGAAGGGAGCTTGGTTTCGGACCCCA
GGACATCCTGTCCGCAAGCAGCTGCTACTTCTTGGGCTTCTCTAGAATAT
TGAGGAATTTCCCCGTGTCATCTCTCTGGACTCATCCAGCCCCAGCTGA
TAGGCTAGGTTCTGTAGGCCTCGAACCTTCTCCATCAAATTAGCCGTGGT
GAGACTCCCCAGTTCTTTCAACATGTCGATGTCATCAGTTCTATCTCAG
CCATCCATTTGGGTGGAGAACTAGTAATAGGACTTTTGAAGGAAGCTGCA
AATTCAGCAACACCTGGTAATTGTTCTGGCCAAAGATCTGGTGAGGCACG
GTCAAGTTTTTCAAACCTTAGCAAAGATGCTTCCAGATCTGTCCCGTCTG
TGGGAGACGCCATCTTCCAACCCATGTCACGTCCCCGCGTACCTGCCCGG
GCGGCCGC
>645.1
GAGCTCACCGGTTGGCCGGCCGCCGGCAGGTACTTCAGGGAGGCCTAT
ATATTGGCACCCAAGGAATGCCAGGACTGCCACCTGCTGCTCCAGCGTTA
GCCTCACTCGTGTGCTTACTCACTTTGACTGCCTTTTTGTCTATTTCTGG
GAGGTTGGTAGAATGAAAGGGATGCTCCAAGGCAAGCAGATGGCCTGTCC
ACCTCCTATATATTGACAGTGCCAATGAGTGTAGAGTCTTGCTACAAGAA
ACAAAGTCATGAGAAATGCCAGGCTTCCTGTTACACCCAAAGACTGCTGG
CCCTCCTACTCTATCCTTTAGACCAGAACTTTTTCTTCTAAGCACTTGC
CTACCGGGAAGGTTGAGGAGTCTTGTTTTACCGT
>646.1
GTGGCGGCCGAGGTACCGGCCAAGCCTGGTCCCCTTCTTGTTGGGCACTG
TGTATGGGCGGAGAAAATCCAGCTTGTTCTTGCTGATGACGCAAAGGTCA
ATGTTGCTTCCGGAGCCCAGGTCGTTGAAGATGCCAGCTGCGATGGCTTC
GCTCACCAGATTCTAGGCTTCTTCTCCTCCATGTCTGGCCTAACTTAT
CTTCAAATACAGACCATTGCTGCCAAGGAGACCAGAACCCATGGTGACAT
AAGGCAACTTATCAGTTTGATCCATGAGGATAGATGCTGTAGAGGTGAGG
TCTCAGTTACATCTACTTCCCCCTAAACTAGGGCTGCACCAATGTAACC
TTGATACCTGAAAAGCATCTGCTTCAGCATCCGATTGGCTGTCACAATC
TGGGAAGACGGCCAGTGAGAGGGGAGTGGAGCTCCAGGTTGGAAGAAATG
AGCTGGGTTGTCATGTCT
>647.1
TGTCAAATATTAAGCTTTTTTTTAAATTGGGAACACTCAGGATATTGG
GATAATTAATTAGGCAATGATTCAAAGATGTTTGGTTTTAAATTCAAAA
CCCTCCAAAGG
>648.1
CGGGGGAAACCCCCCTTTTGGGGTTTTTCCCCACGGGGACCAAAAGGTT
AACCCCGGGGACCCCGGGGGGGGGGGGCCCAACCCCAAGGGTGTTAAA
ACACGGGTTGGGGGGGGGAAAAAAGGGGGGCCAAAGGGCCCCCCCCC
CTTTTTCCCGGGGGGAGAAAAAAGGGGGCCCCCCCCCCCC
>649.1
GGCTTTCCACCAGGCCATCTCTTTCATTTCGGGGGCACCTTTCCAGGGA
GATGAAGAGACACAGGTTGGCCTCTGCTGGGACTCCACATGTCTCCCCGC
GT
>650.1
GAGCTCCCCGCGGTGGCGGCCGAGGTACTGAGTGGGGAAGAAGGTAAGAA
ACAGTTGATTAAACACCTGTGTTCTGGCAGGTGGGATCAGCAATATGTAA

Table 3

TCCAACCTCACCTCCATGTTCAAGGATGTCCCTCTGACTGCAGAAGAGGTG
GAATTTGTGGTGGAAAAAGCATTGAGCATGTTCTCCAAGATGAATCTTCA
AGAAATACCACCTTTGGTCTATCAGCTTCTGGTTCTCTCCTCCAAGGGAA
GCAGAAAGAGTGTTTTGGAAGGAATCATAGCCTTCTTCAGTGCACCTAGAT
AAGCAGCACAAATGAGGAACAGAGTGGTGACGAGCTATTGGATGTTGTCAC
TGTGCCATCAGGTGAACTTCGTCTATGTGGAAGGCACCATTTATTCTACACA
TTGTGTTTGCCATCAAATTGGACTATGAACTAGGCAGAGAACTCGTGAAA
CACTTAAAGGTAGGACAGCAAGGAGATTCCAATAATAACTTAAGTCCCTT
CAGCATTGCTCTTCTTCTGTCTGTAAC
>651.1
TGAGCTCCCCGCGGTGGCGGCCGAGGTACTGCGTTATGCAGAGGTGTCCA
GCCCCCTTCTCTTCTGGAATTAACATTGGCTCCACCTTCCAGCAATT
GCTGGACCAGGTCAACATCTTCGTTTTGAACAGCTTTAATCAGCAAGTGA
TTGTCTTCCACTGCAGCCCTTCTACCGCTGGAGGACGTGGGTCCCTCCTG
GGGGTTGTTATGATCCCTGCTCTCCATGACGGTAAATGCCACCTGCTACC
ACTTTAGCCTTTTCTTGAGAAAATGCAAATTTATCTCTAGCACTTAA
TCAAAGAAGCTTTGAGTGTAATTGGGATTCTCTGGCAACAGAGCAGCAG
TATGAAGAAGGAACAATGTTCTCAGTCTTCTGACATTCCACCTGCTCAAC
TCAGACGTCTCAATTATTCTTTGGCAGCCGCAAAGCCTGGAAGACTGCT
TGCAGCCCGAGCAGTTTCTCTCTGCTGCCTCCGCGTACCAGTGAGGAAGG
AAAGAGCATTCTCCTTTAGGGCAGCAATCAC
>652.1
ACGCGGGGAGGGCCAGGTCTCAGGGCTCCTGGAGCTGCAGGCGGCGGGAG
GGGCTACAAATGCTTGACTCAGTGATGCAGAACCTTTAGAGTTAGCTGG
AAGCCACAGCCCTGCCTCTTGATGCAGCCTGGATCCAGCCGGTGTGAAGA
GGAGACCCCTTCCCTCTTGTTGGGGTTTGGATCCTGTGTTTCTAGCCTTG
CAAACTCTACATCAGGGATATCCTGGACATGAAGGAGTCCCGCCAGGTG
CCAGGTGTATTTTGT
>653.1
ACCTGTGAACTGAGGAATTATAGATAAACCTTAGGTCAAATCATTTTCGCA
ATTGCATTGGTGGTATTGAAAAATGATGAGATTTCTCTGACAGAGAGCTT
TGTCTAGTTTTTGTCTTTCATAGGTCAAACTGGCAATATTCTCTTGT
TGCAAGATAAAGTGTTTGTGCTTCTATCACCATATGCATGAACATGTAAG
AATCAGATACAATTTCTGCTTCATCAGTTTCACATGTTTCATGTTGTCACT
GAAAAAATGCATCTACTGTTTATAGCTCCCAAGGAGACCCCAAA
>654.1
ACCGGGGGCGGCGAGGTACCTGTTACCACTTTAAAAGTAAGTTCTCCATC
CCATAAAGCCATTTAAATTCATTAGAAAAATGTCCTTACCTCTTAAATG
TGAATTCATCTGTTAAGCTAGGGGTGACACACGTCATTGTGCTATATGTA
TGTGACTTCCCTCCCCCTGCCAGAATACTCCTTGGTCAATTGTAGGTATT
CTTTTGGTTTAAATTTTGGCAATGTAATTAATAAATGGTATGTCATTTT
TAAATTTGTATTTCTTTTATTACAAATAAGATTGTTATGTCAGTATTGT
TATTGGCTTTTCGATTCTCTTAACGTGAACCGTCTGTTTATTGTTTTT
ACCTGTTTTCGTTTTAGCAAGTAGT
>655.1
GTGGCGGCGGAGGTACGCGGGGGAAGTCGGCCATGGACTGGAAAGAAGTT
CTTCGTCGGCGCTAGCGACGCCAACACCTGTCCAAACAAAAAAG
TGAACAAGAATTAAAAGATGAAGAAATGGATTTATTTACAAAATATTACT
CCGAATGGAAGGAGGTAGAAAAAACACAAATGAATTTCTATAAGACCATT
CCCCGGTTTTATTATAGGCTGCCTGCTGAAGATGAAGTCTTACTACAGAA
ATTAAGAGAGGAATCAAGAGCTGTCTTTCTACAAAGAAAAAGCAGAGAAC
TGTTAGATAATGAAGAAATACAGAACTTATGGTTTTTGTGTTGACAAACAC
CAGACACCACCTATGATTGGAGAGGAAGCGATGATCAATTACGAAAACCT
TTTG
>656.1
TGGCGGCGCGCGGGCTGGTACGCCACAAGGCATTTAATGCCACAGTAA

Table 3

CAGGGCTGTTTGACAGTGGCAGAAGAGGACGGGACTAAAGTTACTTTGTG
CTGAGAGGGGGAAAGAAGCACAAAGTTTGGTCTGTTGCGTAATTGAATTT
TTAACTCTTATCCACAACAAACACTTTTTCGTGTCTGCTGTGTAAAA
GACATGAGATATATTACAGATTTTCAAACAGGTGAGCATCCTTTACGAG
CTGGGCAGGTGGGGAGTGGCGTGGTTTTGATGGAGTGAGGAGATTTGGAT
GAATGAACGCTAAGATGGCCAGACGCACCTCTTGGATCGTAACTCTGCAG
GCTGGGATTCCAGAGCTGCAAACAACCACTGAATTCGATCTGTAAACCTG
TTGTCAATTTGACGTTTGAGGCAGGCATCAACATTTACATTGAGATTCAA
TAGACGCTACTACTACAAAGGAGCTTTATTGTTGCAGCTTAAATGGTTG
CTGCGGGAACACTGAAGGGTGAAACTGACTTTTT
>657.1
CTCCCCGGGTGGCGGCGGGTACATTCCAATGAAGAATTTCTTCATTCTGA
TCTCCTAGAAGACAGCAAATACCGAAAAATCTACTCCTTTACTCTTAAG
>658.1
TTGTTATACACTTTACAAAAAGATTTTATCTTTGATCTCTTGGCGATCTT
CTTCTTGCCCATGGCAGCTGTCACTTTGCGGGGGTAGCGGTCAATTCCAG
CCACCA
>658.2
CTTCCAGGTTTCATGAACCTTGCCCATTTGCGCAGCAACCACCCCGGGGC
>658.3
CGATAACCCGTCGGACCCCTCGAAGGGGGGGGGCCCCGGGTTACCCAAGC
TTTTT
>659.1
GGTGGCGGCCGCCCGGGCTGGTGCGCCACAAGGCATTTAATGCCACAGT
AACAGGGCTGTTTGACAGTGGCAGAAGAGGACGGGACTAAAGTTACTTTG
TGCTGAGAGGGGGAAAGAAGCACAAAGTTTGGTCTGTTGCGTAATTGAAT
TTTTAACTCTTATCCACAACAAACACTTTTTCGTGTCTGCTGTGTAA
AAGACATCAGATATATTACAGATTTTCAAACAGGTGAGCATCCTTTTACG
AGCTGGGCAGGTGGGGAGTGGCGTGGTTTTGATGGAGTGAGGAGATTTGG
TTGAATGAACGCTAAGATGGCCAGACGCACCTGTTGATCTCAACTCTGC
AGCCTGGGATTCCAGAGCTGCAAACAACCACTGAATTCGATCTGTAAACC
TGTTGTCAATTTGACGTTTTAGGCAGGCATGAACATTTACATTGTAATTC
AATAGACGCTACTACTACAAAGGAGCTTTATTGTTCCAGCTTAATATGGT
TGCTGCGGCAACAC
>660.1
GTGGCGGCCGCCCGGGCAGGTACTATGACCTGAAGAGGCAGAGGCCATCA
CTGTTGGTCCGGTCTCCACCTGGGGAAACTGAGGTTGCACAGTGTCTCTG
TGGTGACGAGCAGGGCTTCATCCAGTGCCCTGTGCCCCACCGAGGGGACT
ATGGGAGACATGGAGGGTGTGTGAGCAACAGGTGAGACTGGAGCCAGCTG
AAACTGGGAGACCGACCCAGCCAACAACATGTCGGTCTCTGTCTTGG
CACCTGCAGGAAACAAGCTCCTACTTCCAGAAAAAGTGCTCCTGGGACTC
CAGGATACCAGGCATCTGGGTAAGCTACAATGCTTAACCACTTAACACAA
TCAGGAAGCAACAGCCATGCATTGCGGAAAGGAACCTCAGTGTTGTGTGG
CTCAGTCTCCAGACCTAATTTCTTTTGGTACCTC
>661.1
GCTCCCCGCGGTGGCGGCCGAGGTACGCGGGAGAGACTTTTTTCTCACCA
TGAATGTACCCCAGAGGTCAAGAGTCGTGGGATGAAGTTTGCTGAGGAG
CAGCTGCTAAAGCATGGATGGAATCAAGGCAAAGG
>662.1
TTTTAATTTATTTAGGGGGAAGGAGGGGTGTCTTTGGATATACCACAGC
GAGGGCTTTTGGGGGGTATCCTGGGGCATGGGGGTGAGGGGTGGGGTCT
TGGGGAGGGTTTTAGGGGCCCGGGTC
>663.1
ACCGCGGTGGCGGCCGAGGTACTTGTGGAAGGTAGTGACCAGCACAGCCA
GCGCTGCTCCAGAGAACTGCACATCATGGATCTGTGGCAGACCAGGTGG
CAGAGACAGACCCAGGAAGGAGAGCAAGGCCCGCGT

Table 3

>664.1
GCGGCGCCGGCAGGTACGCGGGGGCGGTATCTGTATCGGGCCTTACTGGC
TTCAAGAGCCGAATTCCCTTCCAAGCACCCACCAGGGGGACCCCAATTAA
GGGTTTGGGACCCACTATTTTTTAATAACGCCAGCACCTTAAAATGCCTG
GGAAGATGGTCGTGATCCTTGGAGCCTCAAATATACTTTGGATAATGTTT
GCAGCTTCTCAAGCTTTTAAAATCGAGACCACCCAGAATCTAGATATCT
TGCTCAGATTGGTGACTCCGTCTCATTGACTTGCAGCACCCACAGGCTGTG
AGTCCCCATTTTTCTCTTGGAGAACCCAGATAGATAGTC
>665.1
GAGCTCCCGCGGTGGCGGCCGAGGCTAACAAGGAAAGCCCCTGGAGCTCC
TGTAATAAGAATGTGGTTGGAAGATGCAAACCTGTGGATGATCATCACCTC
CATTTTCCTAGGTGTCATTACAGTGATCATCATAGGCTTATGTCTTGCTG
CAGTAACTTATGTTGATGAAGATGAAAATGAAATACTTGAATTATCATCA
AACAAAACATTTCTCATGCTGAAGATTCCAGAGGAGTGTTGCTGA
AGAGGAATTGCCTCACCTGCTCACCGAAAGGCTCACAGATGTGT
>666.1
GTGGCGGCCCGCCCGGGCAGGTTTAATCTCAGGTCTCCCTATACACTTCTC
AGCCTCAGCACCTAACCCCTCACACAACACTCCAGTATTGGATGCAGTCAA
TCTTGATAACATTTTTTGAATGTCCAATGTGCAAAGCACGATGTTGGAA
ATTATACAGAGGTGAATAAGACAAAACCTCTTGCTCTCAAAGATGTCAGT
CTTTTTCTTGAAGGATAACACA
>667.1
GCGGCCGAGGTACTGGAGAGTCGGCTTTGACCATGGCCTCAGCTCAGCTC
CAGGTTTGGAGCGGAATAAAACAGGAGCTAGCAAGATGTCTCATCTGAGC
TTCCAGTGCCCAACTTATCTGAGGCCTGGGGCTGAAGCCAGCGCTGACG
GA
>668.1
GTGGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTCTGGTCGA
AAATTTTTGTGGAATTTAAAGAAAA
>668.2
GAAAGGCCAAAGTAGCACTCAGATGGCCTTTTTTGTAAAGTGAAGTCAAC
CTAATACTCTGGTGCTTACTTTGCAAATCTTTCCATAAGTCAAGTATTA
GTGTTAACAATACACTTAAGAAGTAAGGATAAACCCATCAAGGTCCACAG
CTAAATAACCAGCAGATTCCCAGAACTTTATGTATTTGGGAAAAGTAAA
ATATACAACAGACATATCCCTGCCCTGATTAAAGAGGGTAGATAAAAAACA
AACATAAAACAATTTTACTTGAGATAGTAATAAGTTATTTGAAAAAATA
CAACAGAATATAGGGAGAGAGAGCAACTACAGAAAGAAGACAGAAGGGGT
TCTGCTTTGAATAGTAAGGCTTGGAATAGCTGAAT
>669.1
GGCGGCCGAGGTACAGAGTAGGATCAATAAAATCTGTGTGTTACAGCGGC
AGACTGAAGGACGGGTGCCTGTTTTAGCCATGAGGTAGTCCCTGACCAT
CTGAGAACCAAGCCTGACCCTGAAGTGGAAGAACAGGAGAAGCAACTGAC
GACAGATGCTGCCCCGATTGGTGAGATGCAGCCAGGTTGGACTGAGTC
ACTGCCTTGCTGCCCCATCCCCATCCCATCATGAGAAGCTAGGCATTACC
ATTCTGTCTAGTAGGGATACATAGTTGGTTGCGCCTAAGTTGCTTCTGG
CAGAACCCAAGGAATAAATTTCTCCATATCGTTTCCTAGTTACCCTAATC
TCTGCACAAATTTGTGTGTACAGAAGCAGATCCAGAGCTTGAATAAAAT
GTGTTCAAACCTTCTGGAGAAAATCAGCA
>670.1
TGGCGGCCCGCCCGGGCAGGACATTCTTTTTTTTTTTTTTAACTTTTAGG
GTCTTGGCCTATTGCATACTAAAGGGCAAAGGCTTAGAGATATCAAAGG
GGCTAATTTTTTATTGACAGACCATGGCGATGTAAATTAGCTGACTTTG
GTGTGGCTGCAAAAATAACAGCTACCATTGCAAAACGAAAATCTTTCATT
GGCACCCCTTACTGGATGGCCCCAGAAGTTGCAGCAGTAGAGAAGAAATGG
TGGCTACAACCAACTCTGTGATATCTGGGCAGTAGGAATAACAGCAATTG
AACTTGGAGAACTTCAGCCACCTATGTTTGGATCTCCACCCAATGAGGGC

Table 3

TCTCTTCTTAATGTCAAAAAGTAATTTTCAGCCTCCAAAACCTAAAGGACA
AAACAAAATGGGTCATCAACATTCCATAATTTTGTCAAAATAAGCACTA
ATCAAAAAAAAAAAAAAA
>671.1
GAGCTACCGCGGTGGCGGCCGAGGTACGCGGGGTCTTCTCATGCTCCGTG
ATGCATGAGGCTCTGCACAACCACTACACGCAGAAGAGCCTCTCCCTGC
TCCGGGTAAATGAGTGCGA
>672.1
TCGAGCTCACCGCGGTGGCGGCCGAGGTACTCTTCTGCACTGTTCTTTCT
TTCTAATAAACTTTCTTTTTCGAACCTATACTGTCTTCTGTAAATCTT
CTTACTACCCTATGACCCGTGAGCCAACCACTTTCCGATGCCAGGGTTCT
GACACCTCACCTGGCATAATATAAAGTGTTTTTTTTATACCCTTCCAC
TTGGAAAGACTACAGAGGAATCTTGCACTGCATAGTTCAAACCTAAAAAGA
GAAGAGTTAATTACCTGAAAAGCAAGAGAAAACAAGAAGGGGTAAATTT
GAACCAAGGGAAATCATTTAAGAAGTGCTGGTATTTTTCAAATTTCTGT
CAGTTGTTACATTTGTCTAAGTAAATGTTTAGGAATAAAGGATGGAGAC
ATGCTTATTTTATTTAACTCCCC
>673.1
GGATTGAGCTCCCCGCGGTGGCGGCCGTCCCTCTTAATCATGGCCTCAGT
TCCGAAAACCAACAAAATACGAACCGCGGTCTTCCATTATTCCTAGC
TGCGGTATCCAGGCGGCTCGGGCCTGCTTTGAACACTCTAATTTTTTCAA
AGTAAACGCTTCGGGCCCCGCGGACACTCAGCTCCGCGTACCT
>674.1
GGGGCGGCGGAGACTGAGCCACACAGTGTCCGGATGGAAGTCTGCATCTGA
GGTTGCTCAGTGTCCCGGTCAATCATTTACACATTTTAACTTGCAATAAA
GAGCTGTTCTTTCTGTGGCCTAGACTCTTTTCACTGATCTCAAAAT
>674.2
CTAAAATTACATGGAGTTAGTGTCTATTCTTTTTCCCCTTTTGCAGCAAC
TTACACAGCATTTTTAACACCTTTTTTTCTAGTTTTTTGTTTCGGTTTT
GTTTTCCATCAGGAATTTGAGTTCTCTCTAACCAGCTTACTGTGGGACA
TAGGAAAACCTCAGTAGAAATACCTTTGGTGATCTTGTTGAGTTTAAGTCT
GATCTTGATCTTAACTCAGTAAGCCACTATCTGCAATTTTGT
>675.1
AGCTCACCGCGGTGGCGGCCGAGGTACGCGGGGCTGTAGTGGCTTCGTCT
TCGGTTTTTCTCTTCCTTCGCTAACGCCTCCCGGCTCTCGTCAG
>676.1
AGCTCACCGCGGTGGCGGCCGCGAGAGCACAGATGACCACGCCATCGTCC
AGTATGAGTGGGCACTGCTGCAGGGGGACCCGTCACTGGACATGAAGGTA
ACGCATGTTGTCACTGCTGGCAGCTAGGTCTGCTGGGGCACACCGAGCCT
GTGAGGGAGGGAGGCCAGCATGCGGTGCT
>677.1
TGAGCTCACCGGTGGCGGCCGCCCGGGCAGGACGCGGGAAGGATTCTGT
AGTATGTAGCGTGTCTTAGGTAAAGTCTCTTTTGTACTGAAAGGGA
AATGGTCTCTAAACACTGGTCACTGTAGCAGGTAAACACTACTCTAACGT
GGAGAAATGAGCTTCATGCTGAGGTAGTGGTTGCCTTAAAGCTGTTTTT
ATGCTGTAAAACCAAAATGGGTTTGGT
>678.1
CTCCCCGCGGTGGCGGCCGAGGTACTTGTGGCAGACGTGATGATCGAGT
TCAAGGCTGTCTCCAGCTCGGCCAACATGATGCCACGGAATCGCCCCAC
CAGGTCTTGTAAAGACAGCTGACACGAGACATCCCCGCGT
>679.1
CGGGTGGCGGCCCGCCGGGCAGGTACTGGTGTGTGATCGGAACGTGTGCG
ATCCCCCTTCTCATCACTGCTGCTCCAACCTGGATTTATTACTCCGGGAA
TGCTCTGAGGGGGAAAACCAATGTGTTTAGCGTGCCTGCCACCTGCGCC
TGAGCACAACCTATCCTGCAATCTGACCTGCCCTCCTGCACAGGAAACCA
CCTTCCCCCTCCAATTGATGGTTCAAACACTGCCACCGCTGACTGCCCTG

Table 3

CATCTGTGGGTCTGTAGAACAGAAAGGCAGAACAACTTATTTTTTAGGAT
TTAACGACAACCGGTTGAAAAAACGGTAGGGTGTCATGCTCACAGAGAA
TAAAGATTTGTAGAAAAGGTGCTGAAGTCCCAAGGAAGGCATTTCTTG
CCGTGTCTGGAACCGTGTATCCTTACTACATCACTGAACGACACCAAGCA
CCCCATGCACT
>680.1
AGCTCCCCGCGGTGGCGGCCGGGTACAAGGGGAGGTAAGATGGGAGCTCC
ACTCCTTGGAACACCAGCTGGTTCTGGACCGTATCCCCATGAATCTGTTT
GAACGTAAGGAGGAAGTCAAAAAAGTTCTTATTTAGGGTTTCTTGAGAT
GTGGGGCCACTTCCATTCCCACCCGGCACAGGTAGGCACGGGCATACACC
GACACTAGTGGGTCTCCGATCCCTCTGATCATGCATGTCAACCGGGGCG
GCACTCTGAAATTTCCCGTTTTGGAGAGGAATTTGTTACATTTCAAGGATGG
ATGCCCTCCACGTAAATCTTGAATGAGTTCCTGATGGAGGCAATCTTG
AAAAACCAATTTAGGCATGTTTCTTGCCGTGTCAATTTGCATTTCTG
AGAAAAGTGATCTGGTAAGACGCTGCGGCTATCCACACACATGGAAAAGA
TGCGCTCGTACCTGCCCGGGCG
>681.1
TGGCGGCCGAGGTACCCTAATGTAGTAGTAAATTTAAGGCCTGTCGAGGA
AATTTTAACACTTCCAACAGGTGACTATATCAGGAAGGAGAAAACCAAGT
GCTTCCTGCTTACCTTCTGCTGCTTTGGGACTTTTATGAGCTAGTTA
GCTAAGGACAAGACCCTGAACCCATTTTTCACTGGGAGAGGAAAACCA
CAGGCTTCTCAGCTTTGGCTTGGCAACTCTGGAGTTCCTATGGCTTCCAT
CAGGGCTCCAGGACCCTGATAAGTGGCCTCAGGCAGGAGGAGATCGGGAG
CGGATGGGAGAGCTAGTCAGGAAGGTGGAATAGGGACCATCCCCAACAC
GTTGGCGTATGATGATTTGAGGAAGTGGACGTAGTTCTGCATGCTGCGGT
TGGAGCTTTGCGACTGCTCCAGGCGATCTTTCAGGTCTTGCAACCGGCTT
TGGTAGCGG
>682.1
TTGAGCTCACCGCGGTGGCGGCCGAGGTACTCTCGTTTCAGCTGGGCTCT
TATGGCCAACCGCTCGGCTTGCGCCCGCCGGTTTCCGGAGATATGTTGT
ATTCCGCTGGGTGAGGGTCTCAGGCAGAGTGCGCAGGCTCGACGGCTTA
TACTTTGGGAACGACATCTTGGCGAACCAGGGCACAATTGCGCCTGCGCG
ATTCTGAGGCCCTTTGTCTCCCCGCGT
>683.1
GCGGTGGCGGCCGCCCGGGCCGGTACGCGGGATGGCACATGCAGCGCAAG
TAGGGTCTACAAGGACGCTACTTCCCCTATCATAGAAGAGCTTATCACCT
TTCATGATCAC
>683.2
GCCCTCATAATCATTTTCTTATCTGCTTCCTAGTCCTGTATGCCCTTTT
CCTAACACTCACAACAACTAACTAATACTAACATCTCAGACGCTCAGG
AAATAGAAACCCGT
>683.3
TGGACTATCTGGCCGGCCTTATCCTAGGCCCTAATGGGCCTCCATCCTT
AC
>684.1
TGGCTCTACAATCCTCAGCATGTTAATCGAAGCCTTGTTGAGCTTCACAA
AGGTTCCATTGAAGATTTGAC
>684.2
GAAGGCGAAGAAGCTGCAACACCTTTTGAACCTTTGGGCTCACTCCATTG
ATACCTCTGATTCTGATGACAAACGCCAATTTGGGTTCTGCAGGTACGAG
GACATTTTGCCCCGCGGCTTGTGGGGTCTCCTTTACCCATGTTGACAGA
TCCGCGTCCACCCGAGGGTATTGGAGGGTATTCTTGCCTGGTGCGAGCTT
TTCTCAGAGTCCCGCAGAGCGGCCGCTCTAGAAGTAG
>686.1
CTTTATTAAAAAGGCCCTAAGGGGCCCTTTATTAATAAAGGTATAAAA
CCCCATAAATTCGGGGGCCCTGGGCTGGGCAGGGTTGATATCCCTTAAAG

Table 3

GGGAGGAAGGGGGGGGATGGGGGGTGAACCGGGGACTGGGGAAGAGGACC
AGGGGGCACATTGTTCTCGGGTTTGGGTTCAAAGATGGAGCGGGGGGGG
ATATGGGGGAAAGGGGGCCACGGGTTCTCACGCAACAACGGGGGAAGGCC
GGCGACAGTTTTTCCCAAATTCTGGGGGAAGGGG
>687.1
CGGCGGGACGCGGGGCTTTACATGGCAACAAGTATGGCGGCTGCTAGTGG
TAGATTTGAAAGTGCGAAGAGTATCGAAGAGCGGAAAGAACAGACCCGGA
ATGCCAGGGCCGAGGTGTTGCGCCAGGCTAAAGCCAATTTTGA AAAAGAA
GAAAGGCGTAAAGAACTTAAGCGACTTCGGGGTGAGGATACATGGATGCT
ACCTGATGTGAATGAGAGAATTGAACAGTTCTCACAGGAACACTTTGTGA
AGAAAAAGAAGAAAAAGACAAGCTTCTATTTAA
>688.1
CCGCGGTGGCGGCCGAGGTACACTCGCCAGCGGTTTTGCCACAAGAGTAT
ACGGAACAAAGGAGACAGGCTCATTTATAATCTGACGCGGCCACCCTCCT
GCTGCGTTGCGTTTTCCATTGGCTGGGACGGGACCTCACCTTCTGTATTG
TCCCGACTGGCTAGCACTTAGAACTTTTTAAAGAGGGCAA
>689.1
ACAACTGGGCACTGGATAGGTAGTTCCTTTGGTGGTCAAGGTGGCTCTA
CCTGTCCTTGAGCTCTCGTGCTACTCGCTTGGTGATCCGTCCACACATCA
GGCCAATCAGGAACAATATACAGATGCTCCCACTGATCACAGAGAGAATG
TAGTTCCTTAGATGGAGACGTCATTACTTGCATGGCAAGATCAGAGAAGCC
ATCTGCTGGGGCCACCTAGAATGACACAAGGCAATGTGATTCTCTGAGAG
AGCACTGGGCTGGTGGCAGTGCTAGGTCTAACTTATCCCTCTCAGTTCCT
AGTTTAATTTATGTCTTTTCTTTTGGAGAGGGAGGGCAGGAGATAAGAAA
AATCAACACAGAGCTACAACCTTTTTCTGGTCATAAACTATACACAC
GTCTACTGCACAAAAT
>690.1
CGCGGTGGCGGCCGAGTTTGATTTCTTGCAGTCTGAGCGATGGAGCCCG
GGGGTGCCCTGGTTATTGTCCGCTTTCTCTCTCAGATGCTTGGCTTGT
TCAAGAGAACCTTTTTCGATATTCATTGCTCCATCGATTGGATCCAGTCC
TTGTTCAAGAAATTGTTTCAAGGCACTTAAGGCTGCCTGAAAGCCTTGAA
TCCTTGCTAAATATTCCAGTTGTTTTGAAGTTGT
>691.1
GCTCACCGCGGTGGCGGCCGAGGTACTACAGGAAGAACTAGAGGAAACG
GGAATTTTCATCCATGTCTGTATCTGCTGGCAACAGGTGAGAACGGCC
AGTATGTTATTCCTGCAGGCTGCCTAGGGTGCTCTCCTCAAACAGATCA
CCTGAGCCTCCTGCATCTATGAAGTTATGACACAGCAACCAGTTACTCAG
AGTCTGATGAGAAAAACAGATTTTAGGTTTGGGAAATGGGATTACTGTAA
TTTACACATCCAAATGCAAACTGGAGCTCTGATTGAATTCTACCCTGGGG
AGAATTGATGCTAACCCACAGGT
>692.1
ACACCAAATGGTGACATCCTTTACCAATATAGATTACTTCATACCACAT
TGTCAGGAAAGGACTAGAAGAATTTTTTGATGACCCAAAAAACTGGGGG
CAAGAAAAAGTAAATCTGGAGCAGCATGGACCTGTCAGCAACTAAGGAA
CAAAAGTAATGAAGATTTACACAACTTTGGTATGTCTTACTGAAAGAAA
GAAACATGCTTCTAACCCTAGAGCAGGAGGCCAAGCGGCAGAGATTGCCA
ATGCCAAGTCCAGAGCGGTTAGATAAGGTAGTAGATTCCATGGATGCATT
AGATAAAGGTTGTCCAGGAAAGAGAAGATGCCCTAAG
>693.1
ACCTCAGGGACATTTAAGAGTTGGAGGTGCAAATATATTCCAAAAGGGTG
CAACAGACACAGTGTATCCCCCTGCTTCTGTTTTGTATATTTTTGCTAC
TTGGTTTTCTTGATCATAGCTATTTTGTGCTTGAGCTTTATTGGCTA
>694.1
CCGCGGTGGCGGCCGGGTACAAAACAGGGGCTAGAGCTTCCTACTAGGTC
TCTGTTGGGGCTCCCCTTTCTGAACTTTGGCCAAAGACAACAGGATATT
CTTGGGGGTTTTGTTGTTGTTTGTGGCATTTTTTCTGTGCCTGTTGGT

Table 3

GATTCCAGCACAGACCAGAGTGCCGCGT
>695.1
CCGGGGGGGCGCCGGCGGTCTGTATAATGGAGGCTGACCAGAGCAGTTTA
GGAGATTGTAAAGGGAGGTTTTGTGAAGTTCTAAAGGTTCTAGTTTGAA
GGTCGGCCTTGTAGATTAACGAAGGTTACCTAAATAGAATCTAAGTGG
CATTTAAACAGTAAAGTTGTAGAGAAATAGTTTGAAAAAAAAAAAAAAAAA
AAAAAAAAAAGT
>696.1
GTGGCGGGCGGCCGAGGTACAGCAGGGTGCCTCAGCAAGAGAGGACTGAG
TGGATTTTCCTTAGGGATATTTATGAACCTTAAAGCAGGAGCTTAAAGGG
AATTTGGGCCATATTAACCACTTAGGTCATGATAAATGATTACATTTTTG
GACATTTTGGTGTCTTAATGTCAGCAAGGGTTGCACGATAAGTTTTGACA
TGCATGCATGGGAGACATGTAGAAATTCTAGTTACTTACAAGTTTTGGG
GAAGAAGCCTGGACCCAGATGCCAGCTTTAAATAACAGGGGAGTCTAATT
ACTTCTAAATTCCTCACATAGGGAGTTTTG
>697.1
GGCGGCCCGCCCGGCAGGACGCGGAGAGACAGCGTCAGGCGCTTGATTTCC
CTGAGTCCCGGTGCCTCAGCTGCCAGTGCCACGTTCTGTAAGAAGGCAA
CAAGTTCTTCTCCTCTACAGAAGGATTTTGCAAACAATTCGGCAAGTTCC
AAATGATTCTGATCGCAAATACCTGGAAGATTGGGCAAGAGAAGAATTCA
GAAGAAACAAACGTGCCACCGAAGAGGATACAATCCGGATGATGATTACT
CAAGGCAATATGCAGCTCATGGAGTTAGAAAAACACTTGCTTTAGCAA
ATCTTAATATAGCATTATTCTGAAGGATTTTCAAAGTCTCCATGTGTCT
TTGCTGCATTTAGGATTAACAATG
>698.1
CGCGGTGGCGGCCGAGGTACACGGCCCGCTCGTAGGGATCGTGTTTGTTT
CTGACGACCCTACGGTAATGCAGCCGGAGCTTGTTTTCCGTAGCTGGGGA
CAATCTTCTGTCTTGCTG
>698.2
AGGCATGGATTTTCAGGTTTATAACATGGCAGAGTGAATTCTGGCAACAC
ACTGAGTGATGCTTGTCAATGGCCACTATCAGGAATTTAAACAAGATTT
GGAATTTATGACATCTGGACAAACCACATATGAAAACCTACCTTTTGGTC
CATTCTCCAGGGCTTCTTCTGCAGCTTCTGGTTCCAGTTCTTTTTCGGAG
CTGTCAGTGTGTGTTTT
>699.1
GGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGTAGTGTTTT
CTGATGTCTTTTCTAACAAATCTTGCCTGCCAAAAGTCTCAAAAACAT
TCTCACGTTTCTA
>699.2
AGTCCATGTTGCCAAACTGGTCTGGAACCACACACCCAGCTAATTTTT
GTGAATTGCGGGTACCAGCACACCGGCGCGTCTGGACTGCGCCTTCTA
CGATCCAACGCATGCCTGGAGTGGAGGACTAGATCATCAATTGAAAATGC
ATGATTTGAACACTGATCAAGAAAATCTTGTTGGGACCCATGATGCCCT
ATCAGATGTGTTGAATACTGTCCAGAAGTGAATATGATGGTCACTGGAAG
TTGGGATCAGACAGTTAACTGTGGGATCCCAGAACTCCTTGTAATGCTG
GGACCTTCTCTCAGCCTGAAAAGGTATATACCCTCTCAGTGTCTGG
>700.1
CGGCCGACTTGATGAGCGGAGAGACCTGCACCGGTGGCACCATCTTGTCC
CTGACCTCCGCACCGGAAGCCCCCGGTACCT
>701.1
ACCGCGGTGGCGGCCGAGGTACGCGGGGGAGAGAGGAAAAGAACACAGAT
CTCGCATGGTTCAGATTTTCTTTTAGGTCCAGGAGTAAGATATATCAT
ACGAAAATGAAAATTATAAT
>701.2
CTTCTTGGAATCCTGGGAGCCACATTGTCAGCCCCACTTATCCCACAGCG
TCTCATGTCTGCAGCAATAGCAATGAGTTACTTCTTAATCTTAATAATGG

Table 3

TCAACTTTTGCCACTACAACCTTCAGGGCCCACTTAATTCATGGATTCCAC
CTTTCTCTGGAATTTTACAACAGCAGCAGCAGGCTCAAATTCAGGACTC
TCCAGTTCTCTTTATCAGCTCTAGACCAGTTTGCTGGACTGCTCCCAA
TCAAGATACCCTTAACAGGAGAGGCCAGTTTGCCCAAGGAGCCAGGCA
GGCCAAGGTTGATCCCTTACAGCTTCAAACACCGGCTT
>701.3
AAACACAACCAGGCCCCAGTCACGGGGATGCCCTATGTATTCTCCTTCAA
AATGCCTTAAGAGCAAGGGCCAGATGGTTTCAATACCTAT
>701.4
CAGGTTTACATGGGCCCCGCGGTGGCGGCCCGCCCGGCGAGGTAAGTCAAGC
AACAGTTACTGCGACGTGAGATCATCAAGAACACGTAGAGAAACCCAGCT
GTAATCATGCATGGAGATACACCTACATTGCATGAATATATGTTAGATT
GCAACCAGAGACAACCTGATCTCTACTGTTATGAGCAATTAATGACAGCT
CA
>701.5
AGGAGGAGGATGAAATAGATGGTCCAGCTGGACAAGCAGAACCGGACAGA
GCCATTACAATATTGTAACCTTTTGTGCAAGTGTGACTCTACGCTTCG
GTTGTGCGTACCT
>702.1
AAAAGGATGCGCCTCCACTTAGCAAGGCTGGGCAGGATGTGGTTCTGCAT
CTGCCACAGACGGGGTGGTTCTAGA
>703.1
GGCGGCGCCCGGCGAGGTCAGACCTGAACGCCCAAACACTTCCTGCAGATG
TTGTGCTTGGAACCTGTCGTCTTACAGAAGCCAGTTGCAAGGACCTTGC
TGCTGTCTTGGTTGTCAGCAAGAAGCTGACACACCTGTGCTTTGGCCAAG
GAACTCTCATTTGGGGATACAGGGGTGAAGTTTCTGTGTGAGGGCTTGAG
TTACCCTGATTGTAACTGCAGACCTTGGTGTACAGCAATGCAGCATAA
CCAAGCTTGGCTGTAGATATCTCTCAGAGGCGCTCCAAGAAGCCTGCAGC
CTCACAACCTGGACTTGAGTATCAACCAGATAGCTCGTGGATTGTGGAT
TCTCTGTCAGGCATTAGAGAATCCAACTGTAACCTAAAACACCTACGGT
TGAAGACCTATGAACTAATTTGGAAATCAAGAAGCTGTTGGAGGAAGTG
AAAGAAAAG
>704.1
GTGGCGGTCTGCCAGATCCATGATGTGCAGTTCTCTGGAGCAGGCGCTG
GCTGTGCTGGTCACTACCTTCCACAAGTACACGGGTCTATTTGGCCGTGA
CCTTGCTCTGGAGACGATGATATCCCTTCAGCCTGAGGGAATTGATGTTG
ATGAACCCGGAGGCATCAGTTGGCTCATAATCACCTGCACGTTTCATGCT
CACCAGCTCCTCATTGTTGAGAGACAGTGGGGACTCCCGGCCGAGGATGT
>705.1
CCGCGGTGGCGGCCGAGGTCCGACGCAGCAGGCTCCGAAGATCATACAGA
CGCCATTACCACTCTTGGCTCCAGAAACCTCTGCGCCCCGCGTACCTGC
CCG
>706.1
ACGAGTAAATTTTCATTACCTTTAATTAGGCAATGTTTCTTAGATAACCA
TAAACTGCAAAAGCAATTTTAAAAATGATAAATAGGACTTCATCAAAA
AGTAAACGCTTCAAAAGATACTACTGAGAAAGTCACAGAATAGGAGAAAA
ATCTGATG
>707.1
ACCCATATCCAAGGCTTATTGCAACTTTTAGTCTTGCCCTGCTACTTAC
ACAGTCCAGAATCACTTGGTGAGCATTCCAGTAGGACGGTGGCATTTTAG
GATTCAGAAATATTAACCTATAAACCTGTCATTTGATTCTTGATTATTAAT
GTCTGGATCGCCTGTGGTAGGGGTGTAATCCAGGAAGGCATTAAATATA
TTTGAATTAATGTATATTTTGAGAATAAAAGGCTATTTCTAGAAAATATT
AGACACTTGTCTATGTTAAATAAAAAATTTGCTATTTATTGAATATCCCT
TACCCACCTTCTTCCCAATGAAGATCTTATGCATACCTTCACTGGAAGG
TTTAAGATGTGACAATCTTAATAGATCTTGTGAGACCAGCCATTTCTCT

Table 3

GTTTATATTTTGAACCGCCAGAGCAAGGGCCATGCCACCTTTCTCATTG
T
>708.1
ACATCCTTTTGCATGCTCAAGAGCCCATTCTTTTCATCATTGGAAGCAA
CAGCGGCAGTCCCCTGCCCAAGTTATCCCCTAGCTGATTGCTATATCAT
TGCTGGAGTGATCTATCAGGCACCAGACTTGGGATCAGTTATAAACTCTA
GAGTGGTAAGTGTCTTCACATTCTTTAAGCACTAAAGAAAACCTTTTAATT
AGCTACCTTGCTTCCAGTAATCAAAGTCAAGCTCCTCTGCCTTGTGTAAG
TTGCTATAAAGTATTGACTATTAGAATGTCTTGAACCTTTGGTTACTGTGA
GCCAAGTCGGTGCTCAAAGTATATTTATAGTCTCAATTATATAGTAATT
TAGGTTCTGAAAAATAGGTTCTGTCTTTGCATATGTAATATTTGTGAGT
ATTTACTTTGGAAGTTTGGTCGACCTAATGATAAATTTAGAGTTTATTT
TCCTTTTACAAGCTTACTGCATTGCATGGTATTGATCAGTCAGCTTTTGATGA
AGCTATGTCATACTGGTCGATATCAT
>709.1
ACAAGCATGGTCCATACCACTGTTTACTTTTCTAGAAAGTTGTTAGACTA
ATTTTCAACAAAAATTCTTTATTGTCTTGGTAACAAAAGAAGCATACTA
AAAATTCTCAATAAGGCACAGTGTCTCTAGAAGCTTGAGCATTCAACATA
AACTTCTAATTAACACGAACCTTGTGCTCTTATTTGAGCCATTGCTGTGTG
GGCTTGGAGCCAGGAGAAGATGCAGAGGAATTTTACAATGAATTACTTCC
ATCAGCTGCAGAAAATTTTCTAGTTTGGGGAGACAATTACAAACATGTT
TTA
>710.1
ACGCGGGCTAATCCCAGTTATGAGGGCTCTGCCCATGACCTCATCACTTC
CCAGAGGCCCTTACCATCTAATACCAATACATTGGGTTTAGAATTTGAGCA
TGAGAATTTGGGGGAGACAGTCAGACTGTAGCGATGATTCTGGAGTATTC
ATCATTTAAGAGACACTTAAAAATGATCAGAAAGGAGAGGATGAAGGCTA
GAACCTAAGACTTTAGCGTTGAACATGGAAAGGAAGTGATGACTGCAGATA
TCTCCAGT
>711.1
ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGATAGCCATATACCAAATAA
ATGTTCTGTGACTAGGGGTTATGGCACAATGGGTATTGAGACACTAAAAA
CTCTGCTTCAGGCTTCCATCCTCTTAATTTTAGAATATCTCTGATTTCTT
AATTTTCTGATTGACATCTTTTGGTAGATTATCGTGTCTTTTACTTTATGT
TATTGACTGATCCTTTAGAATGATTTTCTTTTGTCTGGGAAAAAAAAT
GCATTCTAATCAGATTCACTAATCTTTGATTCACTTCCAAGGA
>712.1
ACTTACAAAAATTTTAAACATTAGGAGGTAATTATAAGTAGATTCTGTGA
TTAGGACTTCATTATGTATCTTTTGCTACATAAACCTTTGTTAGATTAA
ATGGAAGACACCTGCTAGGTGATACTTTTATAAAACATATGAGTAAGTC
ATATATCTTTGTTAAATTTCTGTATGTTCTTTTTGTATAAAGATGGAGA
GAAAGGATGGAGTGATACTAAGGACCCTAATAACATCTCTGTTCAAATTA
ATTACTAAGTGATAGAAGTATTCATATGCCATTAAAGATTTGCCAATTCT
ATTTG
>713.1
ACTGACACAAGGACTCCAGGCCACACATATCTTCTTGAAAGCCCTTTTCC
TGTTTGAAAAAAGATCGTTTGTATTTGATAGAGCAAAAGAAGGCCACAA
AATGAATTGTCTTCTTGTGGGCTGTGTTTCAGAACGGCCGGTTTGTGGGC
GATGCTGACCTTGAAAGACAGAAATTTTCAAGTTTGAAGTCAACGGACC
CCAGGTAATTCTTTGGCTCAAGACCTGGGTTGCTTCATTATATTTCTT
ATTTCCCCAGCCTATAAGAGCATATTTGTGTCTTGAAGGTGCCTGG
>714.1
ACATATGCACTATTTAGAATATGACATTAATCAACCACTAGAATTTAAAT
CAGGTTATAAATCCTCAAAATCACCAGAGTATAAATTTAAATGAAAAACC
CAGACCACAGAACAAAAACAGAAATACCAAAAAATAATCACAAATATTA
AAAACAGTATATAAACACAGTGACAGAAATTAGGACTAAACATATCTGTAA

Table 3

AACAATAAATGTAAGGGTAATCTCACCAATTATGAAAAAGACCTTCAGAT
CATATTTTAAAACAAATTTAAAAACTCAACTGTATGTTT
>715.1
ATTGGTGTAATTTGAAAACCATGAAAAATAAAACAATAAAGGATCTA
GATGCTAATAATGTGGTTAGTTAACATGTTGACCATTTCAAAGCAAAATA
AGTCTTTGATGTTTTATACTATTCATAGCAAGATATAAGTATTTAATCTG
CAAAGACGTGGATTTGAAAATTCAGCTGCCAAATGTAAAGAACAGATTCC
TAGATTATTATAATAATATCTCTATAAATATTATTTATCAATAATGG
GT
>716.1
TCTAAGTGAAAACCTGGATATTTTTTTCTCCAAAGTTATTTCTTAGTTC
TACCTATGACATGAGGGTGATCTTTATAATTTTTTTGTTTTCACTGAA
GAAATAAACATTGCTTAAGGGAGAGTTGGGGGAGTGCATAAGGATCTGC
AGTTGGGACTGGATTTTTCGGGTTTGTTTTACC
>717.1
ACTAATCTAAATGCTAGACAGTTCAAGTGTAGCTTTGGAGACTTACAGAT
AGCCAGCTAGAGAACTACCAATGATGATATCCATCACGAGGAGTTTGGTG
GCCAGCCTCAAGATGGTCTCAATGATCTTGCATCTTCATATTTCCAC
CCTGTGTAGTCCCCTCTCTCAGGGGATTAGGGTTGGTCTGTATGATCACC
ACATGGCTGCAGTAATGGTATGTCACTTCTGAACTTAGGTTATAAAAGAC
TATGACTCTCATCTTGGGTGTCCACTCTCTGTCTCTGTATCTTACACTC
TAGTGGAAAGCTGCCATATTGTGAACCTCATGGAAGGCCACAGGGTGAAA
AACTGAAGCATCTAATCAACAGTTAGCAAGAACTGAGGCCTGCCAACAA
CCATGTGAGTGACCCCGAAAGAATTTTTTCAGTCCCAGTC
>718.1
GTTTTCGGGTATTTGGGGCGGGATAAACATGGCGACGTCTCTGCATGAGGG
ACCCACGAACCAGCTGGATCTGCTCATCCGGGCCGG
>718.2
TCTTTTATTTTCTACTTCTCTTCAGATTTGTCTTATGCATTTTCCAATA
TGTATGCATCACAGCTATTCTTTTTCTGAGTTATAGCTACAGTTTTCCTA
CTGTTGTCTTCATGCCATTTCAATTCACATGGT
>719.1
AACCCAAAACATTAAGAAAAATATAGGAACAGTAAGTAGATTACATTTTG
TAAACAGACAAGCTTACAAGTTTTCTCAAATATGAAAGTCATACTAACT
GGGAGACTGTAACTTCTTGATGGGGTTAATCTCTAATATGAAGCCACAG
TCATAGCTAACTACAAATTACATATACAATGCCAAAAATATTCAAAAATA
ACATTTTGTGCACCTTAATGAT
>720.1
ACTTGAAGAACATGGTAAAAATATGTTCCACAATAATTTTTATCTTAGAA
ATGTATTCAGTAAAAATCTCTTA
>720.2
TTCAACTATCCTCTTGATTACAGGGGAAAAAAGGATTAGCATGGGAGATAA
CAGAATAGGAAGTTTAGGAGATAATGAGACTTCTGTTTTAGTAAAGTAAA
TAAGCTTTAATAGTTTTTGGTCATGTATTCAGTTTACCAGCCTTGAAGA
TATTTGTAGGAAATTTTAAAAGTTTCTCTATTTTATCCCCCATGATAAAA
ATTATATAGAATAAAAGCTGAATTGAACTTTCTTCACAGCACACTGAAAA
ATATCTTCTATAGCATTAAATCAGATCACA
>721.1
CATAATTCACCCTTGAGCGGGCCCGGGCATGTACGCGGGGTAACTAT
GTTTTCTTTAACAGAAAGTTCTGTTTTGTGATCCTTTTAAAAATAAAGC
TTCACGGAAGGATGAGAATAGTATTTTCAACTTTAAATTTCTCATTACC
AGAAGACCATGTGGTAATTCTCTGTATACAGTTAGAACAGCACGGAACT
TGAAGGCCTAAAAATTAGCTGACCTTGTTAAAAATGTTGGCGTGAGCAG
TATATTATTACCTATCTTTTTTATTGTGTGTGTGTGTGTGTGTGTTTA
AACTAATTGGCTGAAATATCTGCCTGTTTCCCTCTTACATTTTCTTGT
TTCTTTCCTATTATCTTGTCCATCTTGAGATCTACTGTAAAGTGAAT

Table 3

TTTTAATGAAAACAAGTCCAAGTTTACTCTCAGTGGGTTTGGGACATC
AGATGTAATTGAGAGGCCAACAGGGTAAGTCTTCATGTC
>722.1
ACATGAACCTATTAATAAACCATTCATGCTTCCCAGTTTGGCAGATGTGA
GCAAACATATGTATAGGAATCCAAAGGTAACTTTTCTTTTCATTACTTT
ACAGAAATACTGTCAAGTCCAATAGAGAGCACAGACTTGGGAGGCGGATT
GGGTGGGTTTGAATCTCTGCTCTGCCACTTTTATTAATCATGTGAGTTGA
GTATGTGACTTAATCTCTTTAGCTCAATTTCCCATCTGTAAATAGGA
ATAATAAAAAATACTGACTTCAGAGAGGTTTGTGAGGATCAATTAGACAGT
CATGTTAAGTCTGTAAATTGTTTCTGTAATGGGCAAGATAGCAAATATTT
TAGATTTTGTGGACCATGCAGTCTTTATCATAACTGCTTAAGTCCATTA
TAGTGAGAAAGCAGCCACAGACAATATGTAAATGAAAAAGTGTGTCTCTG
TTCCAATAAACTTTATTTTCAAAAACCAGCTGGCTTGTACATCTGGCC
TAT
>723.1
ACTTACTTTGTTGCTCTTTTTCTAAGTTTTAAAGATGGATGCCAATCTCA
GGCTTCTTTTCGTGTGTGTATGTGCGTATGTCCATAAATCTCTTCTAAT
TACAGTGTAAAGCCACATCCACAAGTTTTGATAGTCACAGAACTGTATCG
TCACACTATTTTTTAATTTAGTAAGTTCTTCACTGATCCCTGTGTAATT
TAGAAATGTTTCATAATTTCCCTACATTGGAGGGGAAGATAGTTTTGTTT
>724.1
ACTCCTCAGCTTGTGCTGCCCTTCTCGAATGACTCGCGTTTCTGCTTTC
ATCACTACACCTCCCACCGCTCTCCATCACCTGCTCTGCTCTTATAAGGA
TCCAGAGAAATGGAATAATCTTATTGCTGATCTATGTAAACAAGTTGAAG
AATCGTCTGAAAGAAAATACAGTGTGTCTAACTGGAAAAGTCTGTAAAT
AGTTTGTTTCATGAGCATTGTCACAGTGGAGTTACTGTTTCATCATGGGGT
>725.1
ACTAACTATTCCTAAATATTAACACTGGTCAACTAAAATGCACAAATTC
ATGAATTGGATTTGCACTCAAACAAAAAAATACCATAGGCAGTATCAT
TTCTACCTTTGTAAGAGGCAGGAATATTCATTAGACTCTATGCTTGACTT
TTCATATGTATTTTAACACTGTAGTAGGCTATCGGGTCTAGTTTAAGCTT
CATTTCTAACTACTCAACAGCTCAGAACTGACAAAGATCACAAGAAATC
AACTATTAACCTCTTGCTGAAGACACAAATGAAATATTCCTATTTTAC
AAAGCAAATTAGATTCCAAGATTTTCAAAGGCCATACTCCTGCAGTTCAC
TTGGGTTCAAACCTTAAATCATAATAGTAATATACACATATTTACATTAT
AATCCATTACACATTATTTTCAACTCAATGCAAGT
>726.1
ACTCACTTAAATAAATAATTGGTAAGATGATTTTATCTGACAATTA
AAGGTATATGTGAAAAACCTTAAAAAAATCTATTTTATTACATGTTGAA
ATGTTCTGTGCTTAATCCAATACATCATTTAAATCTTTTACATTTGGA
CAACAGAAAACTGAAATCTATGGATTCCAAGCTGCAAAGTATTTTATCT
AAAT
>726.2
GCAAATCAAAAAACATCTATAACATCTTGTTGGGGATACAAAGTTCTCCT
GGCTGATTCTCATGCTACAGAAAG
>727.1
ACATTCTATTGTTATCTCTATTTTTTGGATGAAAAACAGCAGCACAAAG
AAGTTCAGTAACTGGCCTAAGGCCACACAGCTTGTCTTCTGAAGACTGG
ACCCAAACCCAGGCAGTCATAGAACATGCTGGTCGCTATTGGGCCGCTTG
CTCTATGGGGGACGGTGCTCCAGGAACACAGCAATGCGGTTTAGGATTCC
AGGACCTGGGGCAGCTGCTGCTTCTTTCTTAGTTCTCGACAGACCACTGA
GTGCAGTTTTTCTAAATCTTTCCCACTTTGATATGTGGTCCATAAAAC
TGCTTCCACACGTATAACCCACTGTGAAGTTTAAATGATTTTATGTTG
GGCAAATTCCTACTGAATGTTAAGCTAGATAGGAAACAAGTTCTGACTAA
CACAAATG
>728.1

Table 3

TAAAAGAATCTTCCAAAGGAGGACAGCAGAAATGAAAATAAAGTAAGTTC
AAACTAGAATCCTTGACACAACCTGGTTTTATTCCCAATGCCTCTTAAAAA
GAATCGTTCCATGGGTGGCAGGAGGGGTGTTTTCATGGTGTGATGCACCG
TGACTTGTTATTCAAGATGTAGT
>729.1
ACTTATCAGGATGAAATCAGAATCACAGTTGGCCTTTTGCCATAAGGGAA
GGGTATTTGGAGAAGAGTCAACCACCACTCATGCCTCTCCCCTGCCCAGC
AGCACCTTGGATTTTCTGGCTTTATGCCTCCTGTTTCCCCTGGCTGAGT
AACTGCAGGCATTAGGTTCTCTACACACGATATATTACAGGGAAATGGC
AGCGATGGTCTGGAAGGGCAACACTGGCCTTCTTTCCTCCTGAGCACTAA
AATCCTAAACATGCAACTTAAAAAAAATTCTAAATGTGAACACCACCTT
TCAATAATTTATA
>730.1
ACTCACTTAAATAAATAATTGGTAAGATGATTTTATCTGACAATTAAAAA
AAGGTATATGTGAAAAACCTTAAAAAAAATCTATTTTATTACATGTTGAA
ATGTTCTGTGCTTAATCCAATACATCATTTAAATTCTTTTACATTTGGA
CAACAGAAAACTGAAATCTATGGATTCCAAGCTGCAAAGTATTTTATCT
AAATTGCAAAATCAAAAAACATCTATAACATCTTGTGGGGATACAAAGTT
CTCCTGGCTGATTCTCATGCTACAGAAAGCCCGAGTTTCTGTTCTGTAAA
TTGGGACAAGTGCCCCGGC
>731.1
ACTTTTCTGAAGAATACATCTTCGTTCAATGTGGTCGTATTCTTAATTTT
TTCTATAATATTGCTTGTAATCTTTAGAGTTATGGTTTCATTTTTTGA
ATTAATTTGAAATTGTTGACATCAGCAGTTGACTCTTCTGTGTAGATCA
TAATTTTTTAATTAGAAGACACTCTCAAGTGTGAACTATAATTGTAGA
GTAAATTTAAGTGGAGGATATCGTAAATCTTTTTTGTCTTGGTATTGA
CATGTAAATGTTAACATATGTGAATAATTCAGTCCACGATTGTCACAGGT
TCTATGTCTTTACCTCCTTTCAAATACTTTCTTTAACAAATACTTTGAC
AAATTTATTAACATTTATAAGACAAGACTTACCAAGTTGTGTTGTTTTAT
GATTCTTTAAATGTTTTCCAATACTTAGATACATCAAAATTATAGGACTT
CTCAATTCATCCTATTGTTA
>732.1
CTCACCCCTGAATCTTTCTGCTCAAGATCCAAGAACCCTTTTTTGAGGT
CTGGATCGGGACCCCTTTCTGTAAACGACTGTATCCCCTTGGCAGACA
TATGAATCTGCACCCCCGCTTGGTCTCCAATATCCAGGGATG
>733.1
ACAAAATATGTGAGAACGTATACTACTTCTCGGCCACAACACTACTATTTT
TAGATATTCATAAAATAACCTCTGATTGTGTTTACATTGACCCATTCA
GTTCTGTCCAATCTTATAATTCTGATTAAATGTTCTGGGCCTCAAACTA
ATTTTTAAAAGGCCACTAACTCCAAATCTAGGAACAAAACACTCTGTAAG
ACTACTGTAACCTTGATAAAATAACTTGAAAAATTCACCTCACTCCAATA
AACTATGATTTATGTAGCTCATAAGAGGGTGAATTTGAATATTTACTC
TATGAAAAAGCCTAAGCAATTCAATAAAACTTGATAACTGCACGTTTAG
TTTGCAGCATCTTGACCTGCCCGGGC
>734.1
AGTTGTGAGGAATCTGCAGAATTCCTTTCTGTTGGACGCCCTTTCAGG
TACTTTCTCTGAATTTTATTAGCTACATTAAGAAAAAGAAAGATCAAATG
CAATAGATAGCACTGTAATAGATTTTGCTACATTAAGAAAAATCCATTG
AATACACAGTGAACTAAAACACCAGAGTGGCTAAAAAGTCCCTTCATGCA
TATTTACTTAGCAGAGAGCTCTTGAGAAAGACCAACCAATAAACCCCAA
CCAAAGCAAATCCAGCTACTTCTTAGCTGAGAGGGTGAATGACTCCAA
AATATTGTTTCAAGCTCAAAAAGCCTAAAACAACTCCACATAAAA
>734.2
AACAAAAATCTATCTAATTGGACATTTACCTTTTTGGAAATAAAAGGCC
AGTGGGAAAAAAAAAAAAAAAAAAAAAGT
>735.1

Table 3

ACTTTTTTTTTTTTTTTTTTTTTTGTACAGACACAGGCTGGGAATTTCC
CAAATCTTACAAGTTCTCGTCCCCTTTCCCTTAACAACCTTTTCGGAGTA
TCTCCGTCCTTTACACTTTATTGTAAGCGAGGAGAGCAGCCAGGCTGCA
CCTTTAACATTTTATTACAGGATCTCAGCTCAGCCAAGTCCTCAGCCAT
TTTGTAAATGAGGATCACTTTCTTCCGGTTCCCCGTGACCTGTCCCTCGCC
TCCTCTAAGCCTCAGCAGAAAGGCCTTCAACATCCACTTTTCCACAACAT
TCTGTCTATGATACCTGCATTCTCTGAGATGCTAGAAGCTTTCTCTCCAG
CTCTCCCCTTTCTCTCTGAGCCTTCACCCGAGTCCCATTGATGTCCGT
ATTTTTACCAACAAGCTCTTCACCGCTATGGAGGCTTTCTCCAGCAGGTC
CCTGAAAACGTCTGCAGCA

>736.1

ACTTGTCTGCTTCAATAAAATTTGTCTTTGATTTCACTGGTGGAAAGGGTG
CTTGATCCAGCTTTTGCTTCTCCATGAGGAGGACTCTGTTTTTCACTTTT
CGCTTTTATTTCTCTGAGGGGAAAAAAGAAAGCATACATTATAAACT
GGACAGCAGAAAAGACTGAGTAATTTCTTAAGTTCTATAAACTCATTTGGA
ACTTCTACAAAAAGTTGGAAAGAATGCAAATTTAATAAAAAATTAGATGCT
AAAATTGTTTCATCTAAATTTTTTAATTCACACAAATAACATAAACTAT
ATGAATAGGT

>737.1

TTTTTTTTTTTTTTTTTTTTGTTTTGAAAACCTTTATTCGGTTTCTCA
GTAACAGTGATGCATTAAGAAATTTGTCTGTCTAAACTTCATAGCAAAC
CGATCCCAGTCCTCACCTCATTGTGTGGTAGCCCAGCAGCAGAGAAGATA
GGAATTTTCTGCCCCCTAGCAATACTGTTTCATCCCATCGATGGCCGAAAT
GCCAGTCTGAATCATTTCTCTGGGTAGATTCCACATTGAGGGTTGATTG
GCTGACCTAATGTATTTCCAAAAAGGAAAATTTCAACAAGTTGCCGCATT
ATTCATGAATGAAATTAGATATCATATCAAATTAAGAAAAAGAAAAAGC
ACCAGAAGACCAGAACTACATAAAGCATCTCTTTACTACAAAAAAATCA
GTTATTTTTCAAATATGAAACTTGAAATAATTGTTTCCTTTACTCTTTG
GAGACTCACAAAACATTGGGTAATAGAATTCAAGTT

>738.1

ACTATCTGCTCTGAATTAATTTAGAACAAAAATCACCTGCCGTGCCAC
TACACATGGACATAATCAACTGCTAAATTATGATTTGTTTTCTTCCAGTT
ACTTTTCCAATTTATTTTACATATACAAATATTTTCTTGGTAGAAGAACA
AAAGTGGCACTATTCATTGTGTAGTTTTTTGTAACCTATATTTTACCCT
AAGCATTTTCTCGTTGTCTTAATTTAATTGAAAATTTATTCATGGCTA
AATAATGCCTAGGCTGCCATGAGTCTTTTCTCCTTCTATAAACCCTGTCA
GCATTCTTTTATATATATCTTTCAGCACATCTGCAATGATTTCTTTGGAA
TAAATTTCTAAAGTTCGCTGGATCGAAAAGATTCAAGGATTTTATGTGT
CTTTCATTTGGCAAAGTATTTTTCAGAAACAAGCCCATTTCAAGTTCTGA
ATAAACAAATTTCTTTTTATGTTGCATTTAAATCTACC

>739.1

ACACAGTTTCTTCTTCGAAACAATCCAGAAGTAGGCTAGCAATGGTCAC
CCCTACATACTTCCGCACACATCTTTAAGAACAGGACACCATTACCACAC
CCAAGAAAACCAGCATTTAATGAATTTATTCAAGAGTATCATCCAACATA
CTCAAATATCCACAGCTGTTCCGAAAGTATCCTTCAATTCTGGATCCATT
GATGGTTCACAGGTTGATTTGGCTGTTACATCTTTTAGTTGTTATCCT
TCAGAGTAAACTGGCCTGCCCTCTTTCTTTCTTTACAATATTGACTCC
TTTGAGGAACCGGGGCTGGATGTGGAGCATTCTCCATTCACTGATTGTT
TCCATGTGACCGATTTCGGGTCACAAATTTCTGGCAAGAACCCTTCACAG
ATGACCATGTATTGGTTATTAGGTAACAATAGATTACTCAAGTAGAGAAC
TGGGAAATT

>740.1

ACATTGTCTGCATTTTGAATTTTCTTATTATCTTTCTGGTGTTGATTC
TGTTTAATTATACTGTGATCTACAAGCA

>741.1

ACTTCAGGTTAGAGATGACTTCAATATATGTCGCAGACCTCCCAAGGTGA

Table 3

GCATCACACAGCACTTATCATAATCACGAAGCAGCTCCACAGAGGCTAAG
ATGAAAACAAAAATCTCAGGAAATTTATGTTTATAAAAATGATACTTGCA
AAAAAATGAATGGAACCATCTCCATTGCTTATTTAGAGTGTTGACTCACT
GAATAAGATTTTAAATTAGTCAATAGTATTGGATGCCTCTATATCTGCAT
ATCAATAGGCTCATAAACAAGGTTGCTCAAAGAAGTGGCCATCAACCACT
TGGTTTCATCTCTGGACACCACACTGTTATCTTCCTTTGGCCTCTGTCCA
TAACGGGTCCAGGCTACGTGCACCAAAGGAAAAGAATTGGGT
>742.1
ACAGGTTTCCCTTGCCTCAACTTCTCATCCTGGGTGATGAGACTGTTACT
TTCCTTCTTGATAAAGAGGGCAACTTTTCATGTAGAAATTTACCTCCTA
CTTTAAGAAAAAGGAAAATCAGAGTGCTTTAAGGAAAAATCAGAGTGCT
TTTCTTGATCTGCTATTTTTCAAGTGCTTTAACTCAAAAAAATCAATA
TGCCAAAGTGGCATGTTTGGGGGTATCTGGTTCTGAATTCCTTCAGGAAA
GATAGAAAAGCAAAAGCAAAATAATAGG
>743.1
ACTCCTCCTTGGCAGCATCAATCAGGCAGGGCTCAGCCCACACCCGGGCTC
CTAAAGACAAGAGAGCAGAGAAAAGCAGAATGGTGTTAGAGACCATCGCA
GTGACCTGATCCTGAAAGCACCTGTAGGAAATTGGCCTCCGCCAAGTGAA
TGTGACAATGCAGTCAGCCACAGTGACGGAGTGCAAGATCGGATCACCAC
ACAGATCCAAGAGACCGCTCACCACACCTGAGAAAACAAGAACCCAAGACA
GCCTCATGGAGGTGGAACCGTGCTACGCAGTTATGGCTTCACTACTGAAT
GCGATCTTGC
>744.1
ACGCGGGTGTTTTTTTTTGGGTAATTTTCTTGAGTTAGAAATGTAGTTAG
AACTGTGACTAACGGCATTGCCTGGAATGTGCTACAAACACGATTAGATA
TTCATTTATCTTCCTCGTATTAGACTGCTTGTATAGAGACTCAGTGTTTA
GACATTCATTTCTCTTCCTTGATAAGACTCCTTGTATAAGACTCGGTGT
TCATTTATCTTTTTAAATTAACCAACAATAATATGAGTTTTTAACCA
TTGCAATGTGCAATAAATAAATATATCTGAAGTAGCATTAGCCTTCTAGT
TTTAAATAATAA
>745.1
ACCTTTTTTTTTTTTTTTTTTTCGTCAAAGTCACTATTTGGGCCCTAA
CATAAT
>745.2
CCTGCTCAGAGCGACGGAAAAAAGGCAAGCCTTTTCAAACATAACTCTCT
CTACAAGCCAGCTATTATGGCAAGGGAAAAAAGAAAGCATCTAGATAAAT
ATCTATCAAAATTAACCTTAAGAGAAATACTCTCTTTCCTTAAAGCCCT
TATTTTTTAAGACACTAGAAAAATAAGTTACTATAAAAAGTGGTGGTCTGG
GGGCTAAAAACAAAACAAAAAAATCCTCTTTCTACATTTTTTAGTTTT
CTG
>746.1
ACTTTTTTTTTTTTTTTTTTTAGTTAAAATGCTTTACCTCAATGGTTG
AGATATTTTGAATGGATTTTTCAAGGGGGGGAAATGCTTATTATAATAAT
AAACCAAAATACTTAACAGAAAATTGTCAGCTATTCTGACAAAATAAAC
ATTTTGAGAGACTTTATTTCTTTGTCCGTTTCTGTGGTATCACTCATTG
TCGTAAAGTAAGTAAAGCTTTTTATATTTAGGTAAGAACTGATTTTATTT
TTTAAATTATTTTATATTTATTAGCACAGAAGAAATAGAGAGCCACA
TTTTAGTTCAACTT
>747.1
ACTCTTTTGTAGGTATTTCCCTCCTGCTGTGTCCAGGATTGCTGTGTG
GTGGTGATGAGTGCTGGGAGGTGAAAAATTAAATAAGCCATTTACCAGT
CAGCATCCCAATTAATATTTGATGTAAGTGTGATCTTTGAGCCAGGCTT
ATATATTCATTTTCAAGCAGAGGAGTTCCTCATTTTAAATAGAGGCATTG
TCTGATGTGTTATGGTTAACTGCATCTGGCTTGGGTCTTTCTGTTTTCC
TTTCTTTGCTGAATTAGAAGGGGTACTCTGAAGAGTCCAGGTCTTACAG
TGTGGTTT

Table 3

>748.1

ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCATTCAAGAAAGAT
AATTTTACACTTATTCTTTGAAAGAAAAATTCTATGGAATTTTCTTCTTC
TAATTAATTCACAAATACATTCTCTCAACCCTATGCCCTCATACTAGTA
ACTTGATGGTTAGCGGGTAAGTAGGTAGTAGTAAAAGAGCAAAAGGGGAA
ATTTGGGGAGCAAAAAAGGGAGAAAAAGAAAAAGGGACCCTTCTAGTT
TCCTAATAGAAAAGCTAGAGAATTCCATTCTGAAAAATTAAGA

>749.1

ACCACTCACTACATTACAAAATAGTCTCTAACATAAAATTGCCTTAATAA
CTATACTATTATAGAATCTGATAAACCTTACATTATTAAATTGATTATAA
AATCTTCTTGGAAAACTTTGGTATGTATCTTCAGAAGGTTTTTAAAAA
TAATATTTAAGGGCCTGTAAACATTCCATTCTATTAAAGCACAGCAGAA
TAAGTAATGGATATTCAACTGCATACAGAATATAGAATCAAAAAACAAT
TTATTATGATTTGTAGAAAATCATTACCAGAGTAAGCAAAAAA

>750.1

ACATTTGATTGTGGCATATTCAACTATGATTTTAGACAAGATGTGTGTGT
GTGTGTGTGTGTGTGTAGACAAAAATAAAATTCAGAAAGAGAAAATCTATT
CTACAATGAAATTCATCTCTTACTTAGCTATTTTGAAATTGTGTCCCAA
TACCACATTAACAGAGCCAAAATGAAATTTAAAATTATGGTTATACTATT
ATTCACACTAGGTAGGGTCAGGTTTTTTGTCTGAATTAATGGCTCCTT
TACGCTAGCTACTTAGGAACCACTTCCCATACCCTCAAGCTAGAGTAATA

>751.1

ACATTTGATTGTGGCATATTCAACTATGATTTTAGACAAGATGTGTGTGT
GTGTGTGTGTGTGTGTAGACAAAAATAAAATTCAGAAAGAGAAAATCTATT
CTACAATGAAATTCATCTCTTACTTAGCTATTTTGAAATTGTGTCCCAA
TACCACATTAACAGAGCCAAAATGAAATTTAAAATTATGGTTATACTATT
ATTCACACTAGGTAGGGTCAGGTTTTTTGTCTGAATTAATGGCTCCTT
TACGCTAGCTACTTAGGAACCACTTCCCATACCCTCAAGCTAGAGTAATA
GATACCTGACCC

>752.1

ACTTTTTTTTTTTTTTTTTTTTTTTTGGGAGCCATGGCAATCTTTTACA
CTTGATTTTAGCCAAAAGGCCAAGAAGCAATGAAAGCCATGATAATCTTT
TTATGCAATGTTATCAGGTAAAAAATGGCTAAAGTATATTAGCATTTAC
CCGAGTGGTATTCTTTTATAGAACTCAGCTACTAAAACCAGGGAGAGTAC
TTGGTGTATTTCTGAAACACTCTGCGAAGTTGTGGATAGCTTCTGGTGGT
AAGGATGGTATTGAACACGTTTACGTCTGTCCCCTTCTCCTTCTCCTG
CTTCATACAAGG

>753.1

ACTTTTTTTTTTTTTTTTTTTTTTGGTATTATATAAAATAATAATGC
ATCTTACAGGGGAAGTCATAAATCCAATGAAATAAAGTATTTACCTGACA
TATTTTTCCCATCTTCTTATTTCAACCATTGACTGGTTGTCCAGCCCCA
AATTGTTGGACTTTTTTAAACAATTCACACTGACTGGCAGTCTTCACCTT
TAAATAGTTGAGTTCATCCCTTTAAATCATTTAAAAACATGATTTTAA
AATTTATCTCCATTACCTTATTTGTGTTTACTTTTTACTTTTATTTAT
TTCCT

>754.1

ACTTTTTTTTTTTTTTTTTTGGTGGGGAGCTGTATTTATTTCCAGGGCT
GTCAAAACAAATATCCATAAATTGGGTGGATTAGAACAACAAAAATTTAT
TCTCTCTAGAGAAGAACGTTTTCTTGCCATTCCCTGGCTGCTGGTCATTG
CTGGCAGTCCCTTGTCTTCCCTGACTAGTAGCTACATCATTCTCATTTCT
GCCTCTGTCTTCATATGGCTGTCATTTCACTGTGTGCTTGTCTCTGGGTC
TTCAAGTGGCCTTTTATAAGGACACTGGT.CATTGGATGTAGGGCCTACC
CCAAT

>755.1

ACATGTTTGAAGGGTTTTTAAATGTTTTGAAACTGTGCACAGGCCAAAC
CCAACCTTCAGGACATGGGTTTTCAACTTCTGGATGGTATGATGGGGTGA

Table 3

TAGTAGGGTATAAAAGTATCCTGAGAAGTTGAAAGCAGTGTGTGAATGGG
GTGTTCTTTTCTCCCCACAATCCTTTCCCATCTGCTGACAGTAGACTTAG
CACCTCACAGATGCTTGGGCCTGGAAATGAAGCCATGAAAATGAAGCCCT
CAGCCTTCTTGGAGATCAGAGCCATGGTCCTCACCCACAGCACATGGG
>756.1
ACACAAAATATTAATAGGATATTTATTTCTAAGCCAAATTTTCAGAAAAC
AATTTACAAACTTTTTTAAAGTATAAACATAGTGTATGCTTACTATAAA
AGGAAAAGTATAAAACATTACTCAAGTATATATAGAAAATGAGTGGGCTG
CTGATCCCCCTCTATATTCTATTGCTGTGTGACAGTATTACCACAAAT
ACAGTAGCTGAAACAACACATTTGTTTTCTCACAGTTTCTGTGGGTGAGG
AGTTCAAGCATAGCTTGGTCCTCTGCAAGCTTACAATCCAAGGGTTGG
>757.1
ACTTCTTTTTTTTTTTTTTTTTTAAATGAGTAGGAAGAGATGGTATCA
CAAACACAAAGCACAGGTTACTGTCTTTAAAAATTTGCGTTCTTCTATTC
TCCAATGGAAGTGGGAACAAAGAGAAAACCCCTGTGTGCTAGCACAAAT
ATGGGCATTTGTGTGGATTTAATAAATGGGCATTTGGATTGTTGGGAAAA
TGTGATCAATCAGCAGGCTATAGAAACACAGTTTGATACGATGGTGAAAA
CTTGTCTACAATGATGTTTTTTCAGAAATGTTGGTGTGATTAGAACAAGT
CAGCAATGATGATGACAAAATATTTACATAATGTTATAGATGTGGCTTGC
TAATGGAAATACCTATCTGAGGCTGTTTAGGAATACACAAATTGAGAACC
GTTTAGTTCAGTTTGCTTTAAACAGTGGTTTTCTGAACCCTTTTTATGT
TCGTGATCCTATGATTAGTAACATCTTACCATTTTAGAATCACT
>758.1
ACTTGTTTTAAACAATGTTGGAAATGAGGAAAATGAGCAATATCAACAT
TTTATCCTGAGGGACAGGGAGTAGAAAACAAGCCAGAGGCTGCTAGTTAC
ATAGTTCAGTCTTAGGGATGAAGGGATTTATGTCTCTCCTCCCTCAGGTA
CGCGGGGACTACACTGGTGTCTGACTTTTTTCTAGAGATTTCTCCCTGA
AAAATACAAGGGCTGTTGGTGAGAGCAGACTTGAGGTGATAATAGTTGGC
CTCTGGTCTACAAAGATTTTATAACTCCTTGGAAGCTTCT
>759.1
ACTCCGATTGCCTCTCCCATGCTTCTCTGCTTTCCAAAGAAAAAACTGAC
CTTGATAGATCCTGTGAGCTGATTGCAGTGTCTTAACTTCTCCATTGT
GAGTTGTTGAGTCTGAGGAGTTAGGTATAAACCCAGAGTGGTATTCTCTT
TTCTGTTGTGTTTGGTTTTGCTTACATATTCAGGAGCTGCTTTTACCCC
CAGAACATCCGTATATATGTTTTTCTGTTTCTAGATTTAAAAATATTC
CAGAAGCCTGGCCTCAAGATAGATAATATTTTACTTTTA
>760.1
ACTTTTTTTTTTTTTTTTTTTTTTAAAAAATATCCTTAATTAGGTA
AAAATTCTCCTTTA
>760.2
TCAAGCGGGTAATTGGGTATTTAATGGGGGGTTTTTTTTAAAGTTTAAG
GGA
>761.1
AACCGAATCAAAGCACTGGCTTATTAGACAAGAGTTTCCCAAATCA
TGCTAAAACAGTAACAGCGAGCTTCCAAATTAATGTTGCCTTTTTTTTT
TTTTTCCAACTGAAAGGAGGGTGGGGAAAAACAAACGCATCATATGTAA
GCACTGAGTCCAGCCTG
>762.1
ACGCGGGTATGGTTTTACGAACAAATTTTAAAGGAAAAAATTATCATGG
TTCTAATCTTACATGTTAACATTTCTTGTATGTAGGGATCAGACTTGT
TATAACATAATTCACCTTTATAATTCAATGAAGAAGAAAGTTTTGTCTGA
TTCTGAGGTATGTAATATTTTATTATTACCATATTGATATTCTCTAT
ATAAAAAATTTACATATTGTAGTTTTTCAAGTAAAAGCTGTTGTGAACAT
TATTTTTGTCTAGTGTAGTTAATTTAAAAAACAACACTGA
>763.1
ACGCCTAAGGGAGAGCTGGGAACATCAAGAGACAAAAAGATGCTTTT

Table 3

TTGCTCTGAAGGCATCGCTGTGGTG
>764.1
CGCCAGTGTGATGGGATATCTGCAGAAATTCGCCCTTAGCGGGCCCCGCC
GGGCAGGTACCGCGGGATTCAATTTGAGTGGGAATCTCAAAGCAGTTGAGT
AGGCAAAAAA
>764.2
TTCATTAAGGGATTAAAAATGTATAAGGCCAGCACCGTGTAACCTTCGA
CTTTCAAAGAATTTTCTTGAAA
>764.3
TTTTAACCTTTTTTTTAAATAAAGGGGGAAGGCCAAGTTTTTTTTTCAA
AATTCCTTAAAAAATGG
>765.1
ACAGAAGCAATGTTTTTGAAGTTTTCTATCTGAGGATTGTTGAATCCA
CAGATGCAGAACTCATGGAAACAGTGCCCACTGTATGTCACAATTCAGA
AAATCAGTATTTTATACAATCAGCTAATAGCCTAATTTGTTGAGCACAGA
AAAATACACTGAACCAATTCTGATTATTGCAGAGAAATGATTGGCAGGAT
ATTGGGAAATAGAATGAAGGGCGGAAAGAAATTTACATGGATTCACTATA
CTCTCCGTCAGGAATTTTGTCCCTTGATCTTTTGTGTTTATTGCCTT
ATTTATTGGGGCCCT
>766.1
ACAGAAGCAATGTTTTTGAAGTTTTCTATCTGTGGTTTGTGAATCCA
CAGATGCAGAACTCATGGAAACAGTGCCCACTGTATGTCACAATTCAGA
AAATCAGTATTTTATACAATCAGCTAATAGCCTAATTTGTTGAGCACAGA
AAAATACACTGAACCAATTCTGATTATTGCAGAGAAATGATTGGCAGGAT
ATTGGGAAATAGAATGAAGGGCGGAAAGAAATTTACATGGATTCACTATA
CTCTCCGTCAGGAATTTTGTCCCTTGATC
>767.1
ACATCAAAGGAGTCTAATGGAACCAAGTAGCAATGTTCCCGAAAACAAA
CAAACAAAAACCCCAAACATTTTGCTGTTTCTTCCCTCTGTATTTGC
TAATTTATCATGACTTTATTCTTAAAGCCTATCACTGGTCTGCTTTAT
TAATAGATTAGTGGAATTTTACCTGGCCTATTAGCACCTTATAAAGAA
ATAGATTAAGAGTAGGAAATATATAGATGAAGATGACTGTATAGAAGTT
GTGTAAATCAGTATGAAAGTTCAATGTTGCTGTTCTTGCTCAGTGATT
TAAAGAAATTGAGTAGTTCCTATGTGATTTTTTTTTTCTTTCTAACT
>768.1
ACATATACATTATGTAATGAAAAAGCGTGATGGGGATGAAAAAATTT
TTTTGTTTATATGCGGATACAATATATACAATAAACACCTAAA
>769.1
ACTTATTTTTTACTAAGGTTTTGTTTTGGAGACTTGTTTGAATAAAGT
GATCCTCATTCAGGATTTAGAAACAAAAGTTATACTCCACATGCTAGGGA
TTAGGAAGGCTAATGTGAAGTATGAAATGGAATGCCTT
TAGAATAATCACTTTTAGGTAATTTGATACTGCTATAATTTCAAGCTTA
GAGAAAAGTTGTAAGAATGGCATAAGGAACTCCTATATATCCTTTATCTA
GATTCATAAATGTTCAATTTGTGCCATTTGTGTTATTCTTTGTCTCATC
CTAGCCAGTCAGCCTAACACCACCAGGGATAAACAGTAGTCTGAT
>770.1
ACCTCTCATTTGTCACTTTTCAACACTTCCTGGCAGGCAGGCAGCATAAC
TGGTCCTGCTGGGGACCAACACACTCTGCAACTCTTCTTCTGAGCCAGG
CTCCCTACTGTCTTTTCAATTTATGTCAAGGCAGGGGAAGACCTCAAAGG
GCTCTTGATCCAGTCTCACTTCCAGAGAGGCACGAGGCCCTCCAGGA
TGTGGGGACAGGAACTTTGGGGCAAGCCGGGGCTGTCCAGAAGATCACCA
GGAGGGCTAAATAGTAGAAAGGAGAGTCTTATTGGTGATATGTTTGCAA
CTGGGAAAAGATAGCCTCCAGTGTGGAGCAAAGATGCTCCTTCTTCAAAG
AGGGCAAGGGCAGCTTGGATTTGTGCTTACAGGGTCTGGTATTATATAA
TAGAGTCATGCATATTCAGTAGGTTTGGGGGAAAGCTATATATTTAT
GAGGGGAGCCAACTACATGGGCAATGGATAAACATACATGTAACACATCC

Table 3

CATGTTAC
>771.1
GAAAAGGAAGGCAAACAACCTTGTTGACATTTGGGAAATTGGGATATCCTT
TGGGGAAATGTAGTAATCAGTATATTCTGGGAAAAACATTATAGAAGAAT
GAATAAATAAAATTCATTGAATTTGGAATATGTTGTCCATTCTTCCCTG
TAACTAATGCTATCAAGATAAAGTTAGAAATACCACATTTTCAGAAACAGC
TGGAAGTAGACAGGGTCTTCATAGGGCTAGCTTGGGAAACCTAAATAGCT
ATTAATAAATGAA
>772.1
ACCACCAATAATGATGCCACATTTGTATCCTAAAAAAAGTGATTTCTT
GTTCTTTGCCTACAAGAACAT
>773.1
ACTATCATCCCCAAGGCCTTTTACAGTCTGAAATATCAAAATTGAAAGC
AAAAATAGGATGACCAAAGGAACTACTATTTTACCTTCTTTT
>774.1
ACATATACATTATGTAATTAAGCGTGCATGTGTATGTATTAATAAATA
ATGGTATATAAACAATACAATATATACAATAAACACCTAACGTCAGA
GGGCTGCATGTTATTCACAATAGGTAATAACCAAATAGTATTTAATGAA
TTGTGTAATGTATGACAACAAGACAAAAAAGCA
>775.1
ACTTTTTTTTTTTTTTTTTTGGAGAGGGGTCATCCTCCAATCATTAACT
ACTTCTAATCTTCACTGCTACACAGAAGTTTCCAATATTTTAGCAACAGA
TGGCTTTGCTTTTACCTTATAGATGAGGCCAAAGCACCAGGTAGGTGGAA
GGTTCTTGATCGGTTTCAACCCGACAGCGCGCCAACAGACAACACGAG
GCAGTGGGGAGCAACACGCTGTTTTAACGAGCGCCTGGGTGCAGGCGTGC
TTGAGCTGAAAATGGCATTGAGCCCCAAGTGAGGACAGG
>776.1
AGAGCTTTGTTAGAGGCTGTTGTAGTAATCCAGGTAAAGGCTTTTAATC
ATGTCCTGAACAATGATCAGCAATGGCAATGGAGATGACAGAACAGAATT
TAAGAAGGAATAAAAAAGGCTTGCTGACTACTTGGATGTGGGTGATGCTA
TCCTTTGACACAAAGGATTAA
>777.1
ACTGCAAGCCAAATGCAATGAACAAACCAAGGTTATTGATAATTTTACAT
CACAGCTCAAGGCTACTGAAGAAAAGCTCTTGGATCTTGATGCACTTCGG
AAAGCCAGTTTCCGAAGGTAAATCGGAAATGAAAGAACTTTAGACAGCC
AGCTTGAGGCAGCTTGAGAAACAGAATTAACA
>778.1
AAAACTCCTTATTAAGGAAATTTTTAACATACCAAAAAATAGTAAGAA
TAGTATCATGAGTTCCTGTGTGATTCCCGCCTAACTTCAATAATTATCA
ATAGTCCACCATTTATTTTACTTATACTTCCCTCCCCAACACCTTAC
TCTTTTGGCGGGGGCTGAAATTATTTTAAAGTAAATCCCAACATATCAT
TCACCTTTAAATACTTCAATGTATATCTTAACAGATAAAGACT
>779.1
ACTACGAAGCTGCAGATCATTACGCTGATATGAATGACTGCTTGAAAGAA
CAATGACTCTGGCAGCCACTGCTTTTACCCAGGAAAGCAGTTTTTCA
CAGATGGCTTTGATTTATACTTTGCACACCATTTAGAGAATAAAAAAGAA
AATCTAAAAGTTAGTCTTAGAGCATACAAACATTCTATATACTATTTTCA
CACTTTATGTGATAATGATATATAATTTATATATACTGAAATTATTTT
AGATCCACTTACTGTGCTTAAACCGAAAGTGAATGATAAAGAGCAATGAA
TTATCTAATGTATCTTTATAATTAAGAAATCA
>780.1
ACAGACAGTGTGATGGATGATGCTGCTGGTTGTAAATTTTCATCGTGTGTG
TCTAATTTTTTCTGTTGAATGGGTAAAAACAAAACAACTTTTTT
AGAAGATGAATTTGCTGTCATGTTTTGTGGAAATGAGGGATCCGTTGA
GCTTCATATCCACCTTGGAAGTTTGAGTTTGAAGCCATGAAA
>781.1

Table 3

ACTTTTTTTTTTTTTTTTTTTTTTGGCGGATGAGTCTTTAATAGAAAA
ACACACGTGCAACAGTATCAACACACATTTTTGGCAATCCTGACAGCGC
TGAACCTCAGTTCTTCACCTTGGGGGGTGGCCTGTACATATCAAAATCTA
TCAAATTGGACCTCAACTATGCATTTTTCTGTGTGCAAGTTATATCTCA
ATTACAAACAAACAAAAACACAAAACCCTATGGTTAACCACAAACCTAAA
CTATCACCAAGAAATATCAATTGGGGTTATGGCATGACCATCCTCCCCAA
GAAATAAAATGCTTGACAGATTCTGAGCGGGACAAATTCAGTGATCAT
ATCCCA
>782.1
ACAAATAAATGAGTTTGCAGTGAATTGGGCCTTCAAATTACCTCAAGTGA
CAGATAGTAAGAAAAGCTTCTTGAGCAGGTGGAGGTCACTGAATCCCCTA
CTATGCACTTATCAAGATTTTACTTACTTTAATTTACTGGAAATTGATTT
TTTAAAAAATGACTACACTGTAACAAGGGAAGGGATCTGGGTTTTTTGT
TGTTTTATTCTTGTTTTTTTAAAGTAGTTCAAATTTCTGAACTGTGATTT
AAAAATTTTTTACAGTCAAGCATTCTGATTTTGAACATAACTCCCTTCCC
TTTCTGTGTAACAAAGGTCTCTCTGTTATCTCTTAAATTTTGTACA
>783.1
ACTCTTCACTGTCTTTGCCATGAAACTTTATAACATGGCTCTCCAGGTGT
TGAATCTGGTGCCCTGTCAACCCTGTGCTCAGGGAACACATGGCGGCAATC
AGCATGTGAGGCGCAGAGGGAGGGCAAGCTCCCCTTGATATTTGAGGT
ATCAGCTGACTCAAGTCTCTCTCCCTTCTCTCCTTATTCTCATGCTACCT
CTCCCAACCATTGTCTTAACTCCCTGGCCAGGATGCCTGCCATATTAGA
TGGAGAGGAGGCAGTTTCTAAATGGCTTGACTTTGGTGAAGTCTCAACTC
AAGAAGCTCTGAAATTAATCCACCCAACAGAGAACATTACCTCCATG
>784.1
ACTACTCGATTGTCAACGTCAAGGAGTCGCAGGTGCGCTGGTTCTAGGAA
TAATGGGGGAAGTATGTAGGAGTTGAAGATTAGTCCGCCGTATTCGGTGT
ACCCCTGGGAGGTGCCAGTCATTGAATAGATAAGGCTGTGCCACAGGAC
TTCTCTTAGTCAGGGCATGCTTTATTAGTGAGGAGAAAAACAATTCCTTA
GAAGCTTAAATATATTGT
>785.1
ACAAGAGGATATGTGTGCATTACATGCAACCACTACACCATTTAATATCT
GGGTGTGAGTATCCGTGGGTTTTGGGTATCCGTGGGGGTCTGGAACCA
ATTTCTCCTGGATACTGAGGGATGACTGGATTACTGTGTGTTTGTGTGCT
TGTTTTAAGCTTCAAAGATTATGTGATCTAGGAGTTGTTAGATTTTAT
TATTGGTCTTAAAGATAAGCTTAGATGTGTTACTTTTTTGGAGTTTTAG
TTTACAGTGATTATGAATCGGGCAGCTTCAGACCACAGGAGACATGAAG
CAGGTAGAAGTTTAAGAAAGCTTGACAAGCAAAATATTTGATTTGGT
>786.1
ACTAAAACAAAACAGCAGTTTAAACATTCAATTAAGGGATATCTA
ATGTGTTTATTATTAAACATAAATAATGTTTTATGAAAAATGTAACCTTAG
TTTTCCAAAACAAAATGTTTAGGGCAAGAGTAACATTATTTTACATTAT
TGCATCTCAGTGAAAAATAAATGGCAACAAAATCTTATATCTGCTTCTG
CAGTTAATTCTGTTTCAATTTGTTTTGGTTGAAATATATGAAGGAAATCTG
TCCTCACACAGTTGTGTAGTGGAAGGGGGGACTATTGTAACAGGCTG
>787.1
ACGCGGGATTCTGTTAAGCAGGCATTGCTTTGCCCTGGAGCAGCTATT
TTAAGCCATCTCAGATTCTGTCTAAAGGGGTTTTTGGGAAGACGTTTTC
TTTATCGCCCCTGAGAAGATCTACCCAGGGAGAA
>788.1
ACCTGCAGGCCTCTACACCTACCTCTCTCTGGGCTTCTATTTGACCGC
GATGATGTGGCTCTGGAAGGCGGGAGCCACTTTCTCCGTGAAGTGGCCG
AGGAGTAATCGCGAGGGCTACGAAGCGTTTTCTGAAGATGC
>789.1
ACTTTAATTTCTTTATAATTTGTTTCAAGCTATTTAAAAAGATAATCCACAA
TCTCCTACCGCCATTAGAGCACAGGAAAAAAAAAATCAAAAATAAAGGAA

Table 3

AAACATGGCTCATATATCTACAGAAGTCACAAAAATACTATAGGGCACAT
ATACCCAGGCCTCAGCGGTGGGAAGAAACATACAACCACCGGGCAAAAT
GTTTGAACACTGAAGACGGGAATTTTTAGGGCCAT
>789.2
TCAAGACCATGTTGAAGGTAAGTGGGAAAGTCCTGGATAGAAATAGATTA
AA
>790.1
ACTCAAGTCGCCCTTATGGAGCCCTTGATTGAGGCTTCAATAGTGTGGAC
AGTGGTGATAAGAGATGGTAGGGAATGAAGTAAGTGTTCCTGTTCCG
TGTGTTATAACACCTGATTAAGAGAAAAACAGAATGATGAAAATGAAAAGC
GTCTTAAGTGGATTGAGTTTCTCACTACATAAAATACAGAAAAAGTCAAGG
TGGAGGCAAGATTCCCACCCTCTCCAGCAGAAATGGCATTCTGCGTCCTT
ACCGGCTTTCTGTACGTGGATTTCGGCCTGTTTCCTCATTGCCTCATGG
AAATAGTTTCATATCATAGAAAGGCAACAGGAGCTGAGCCAGTTGAAAC
TGAAGCCTACAATCTGAGGTGGGGGGTAATCTCG
>791.1
ACTAATCTTTTCCTCTTTCTAGACCGATTCTAGTTTGTTGCCCTTCCCT
TTCCTCGAAACCCCAAGTTTGGGATGCTGCAGACACTCTGTGCCCCCT
GCATGCTGGGTGCCTGGCCAGCTGCCAGGGCATAAAGACAGAGACGATGT
GGCCTTTGCTCTTAAGAATGAGGTTTGAAGCCTCAGTTCTTCCATGTTA
GGTGATTTCTTGACGCTCTTGGTATCTGCAGAATTAGTGTGAATGCTTAA
AAAATATTAACAGCTTTATATCATCAAAGTTTTAACAGT
>792.1
ACTTTTTTTTTTTTTTTTTTTTTTTTTTTGAAGCTGAAGGCCACAGT
AGCTAGCTAAAGGCCACACCACTGAACACTAAAACCTTACTGGC
TACTTTGTAGATAACATTACAGCTCACCATGAATGCAGCTGCAGTCAAC
TAACAGATATGAAGTTACCACTGTATTACATGGTTATATTAGGGACTGCT
TCTACCTACTGGAGGCTGGGGAGGAATGTAACAGCACAAGCCATAATGAA
GTTTATATACAGGCTTAATATAAAAGAAAACCTAGAACTCAACAC
AATTATG
>793.1
ACCATGCAGGGATAGCTGAGTCTTCATCCTCCTCAGCCCCTATCTGTTCA
GTGCACTGAACACCAGCTGCTCTCTCTCTGGCTCCCATGGCAGCCA
TGGTCTGTTGCAGAGAGAAGAGGATTGCCTGTTCCCTCTTTAAGGGAACC
TCCGTTTTGCTTTCTGGAACCACTCTCTTAATG
>794.1
ACGAACCTAAATTTATGATGAATATCTTTGATAATGAGAAATCCTGAGAG
ATTTTACTTTCAATTTTATTTTAAATTTGAAAGAGCATATGACATCTGGAA
TATTTTAACATATAGCCATACTGTTTATTTAAATTTGTAATAATAGAAA
TAGAGTAATTCTACTGTTGGATTTTAAATTTAATCATATAAAGTTTAA
CTGGATTTTATTTTAGGACTAAAATATTTAGGACTAAATAAAATTTTATT
AATTAATTTAGGACTTTTGGGAAAAGATATTTGAGAAGTTTCAGTGCATAT
CAAAAAAGCGAACAACAGAGGCTTCATCTTTGAAAACCTTCATTGGCTAA
AAGTGTCTTCTGTAATACTGATAGTGAAGAACTGTTTTACATCCGAGA
TGTGTTTGATGAAAGAAGATATGAAAGTGCTGCAAGACAGGCTTCTTAG
GACATGCTAGAAGAGGAGCTTCTTAATG
>795.1
ACCCTAGGTGATCTTTGGCTTCTCAAGTTTTTGCACCACTCAGAATCAT
TTCATATACCACCTTTGGCAAACATGCCAGACCTGCAGTAGACTGAAGGA
AGCTCTCCCAAGCTCTAAATTGATTAATTTATTAGTTCCTAGAAGAAAGA
GATTACATGTTTATCTTTTTGTTACAGAAGAACTTTGAATAGCAGTTGA
AAATTTGGCAGGGTGGACCACCTAACTTGACAGTGTATTATTGTGTCTGT
TTGAAGGAATAAAATGGAATTATTTATAAAGTTTTCATTTGTATTAGAG
AG
>796.1
ACACTATCTGACCTAATCCTCAACACAACTAAGGCAGGAGACACAGGGC

Table 3

TGCAAGGACATTTGCTGCCATCCAATTTGTGCCAGCCTGTTTTATCAATC
TGAACCTATATTATTTTAAAGACCTCACGGCATCACTGAAAGATGAGTAT
TATTAGTTGGAATTTTAGGGATGAGAAAACCTGACCCTCAGGGAGAATAAC
TGACTTGCCCCGGCTCCAACAGTAAGTGGCCCTGCTGGGATTTGAACCCA
GGTGTGTCTGACCCCGAAGCCTGATCTGACCTCTGACAGTCGTGATAAAA
ATAA

>797.1

ACCGAAAAATGATTTTGTATATATATTTACCACAATAAAAAAGTTTTAA
ATTTATTATAGGTGACACTGTTTGCTCACTGTAGGTGAGGTATTTTTTGG
TTTTTTTTCTCTTTATTTTATTTTGACCAATGGATTACGTCACCAGG
TGATTTT

>797.2

TTCTGCACCTCTTATGACAATAAATGTTAGAATATTTTCATCACTCAAAA
AGAAACCAAGTATCCATTAGCAAT

>798.1

ACAATTTTTATGTTTACAGCTGTAACCCCTGAGTTATCAAGAGATGGAAC
ATTAGATATGATTTATTCCTATTTAAGATAATAGGACATTGCTTGATTAC
ATTTTCAGAAGATATTTATCCAAAGAAATTTTTTTTTTAATCTAAAGGA
AAGGTTTTGATTCCTATGAGAAAAGAATGAGATTTCTTTAACTGGAAAAT
TGATTTATGTCCTACAGTCCATTGTGTAGTGATGTTGGATCAATCAGGTA
TCGCTAGGGTGTCTGTAGAAGTATCTATATATTGCTTTTTAAGTTCCTAT

>799.1

ACCATGTAGCTCTACTTTTCCATATACAGAGTTGTTTCCTAGCTTTCTGC
TAATCTAACTGGATTCTCTTCCCATTTTCTCATTTACTAGATTATAAT
GCACATCACATAATAAAAGCTTAAAAATGGGCTTTCACAGTTACTGTTTT
CTTTTTAAATAATTGTGAGAGAGCTTTTGCATCATTTATTATCTAATCAT
GATTCAGTGACTAGGCTGTAGCACCCAAGAACCTTGCCTTAAACAGTT
TTTTTACCCAATAATACTACTTTGCCCTTCTTACTTAAAAATGTCCCGTG
CTTAACCTTTTGCTCTTTATTTTGATTTAAGCACTTGACCC

>800.1

ACTCTCTATTTTTAAACAAGGCTCCCTCAAGATATTAATGTGACAACTTA
CATAGCCAGCTGTAAGATATCTTTCAAATGCGCAAGTAACCTAACAGATT
TGTGCATGTCAGCCAGTAATTTCAACATACATTATAAATATGGCCAATTT
TCCCAAATTCATAAATGAATGGAGATAAAATGCTATATAATAAATATGTTA
GAGCACCTTTCTTGAGAACTTCTAAAAGGAAAAAATAAAAGACATAATT
ATACTCACACCACAGTAAACCTCTGGTCACCTGTTTTGGGTTGTGGAA
TGCCCCCAGCAGCCGAGAGACCTATATTAATATCAACAGAGAAATATCAC
ACACAGAATTAACACATACAGTAAACAAGAGCGAGGAAGTCCTGATGG
ATGGTAATGCTGCAACTTG

>801.1

ACTGATTATTCTCCTGCTTAGGGAGAAGCGGAAGAAGGCCCTTGAACTG
TGAGTTTTGCATTCCAACCTTGCTAATTCAACATAGATCCTAATTCCTTAA
ATGCTTGTAATTAGAAATTCTCGTGAAGTGTATTGGTTTTGTCAAGCAA
TCTGTTTGGGGAACCTTGAGCAACTGGGGCACTGCTGGCTAGGGTGAAGTT
TATTTAATTTGTTTTATGACATTCTTCATCTTGGAATGGGGTTTTCAA
ATATTGCTTTCCAGGCATCATTACTTATTTGCTGGTTTTATTCAAGA
TTGGGAC

>802.1

ACGATAGGCATGCAATTAAGAAGACCTGCCTCAAACATTTTCTGTGTGA
CCTGAGGCAAGTCCTTTTATAGCTATAAACTAGGGACAATATTTGCTGTC
ATTTTTCTACAAATGTCACAAAGAACAATTTGAGCCTGTCGCTGTGAA
AGAACTTAGCAAATGAAAGCATCCTAGGGAGTGTTTTAGATATCGATATT
TTTATCCAATTAACTTTTCAAATGAAGTTATTTGCTCACTGAAACTGAA
GT

>803.1

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGTTTCAGCTGTCTCT

Table 3

TACTTTTAACCAAGTGAAATTGACCTGCCCGTGAAGAGGCGGGCATGACAC
AGCAAGAC
>803.2
AGAAGACCCTATGGAGCTTTAATTTATTAATGCAAACAGTACGCTTGGGA
GTCCTCAGCAGGGGGATCATTACAGTGAGGACAGACACAGGTGAACCTA
TGGGTCGTGGAACAAAAGTTATCCTACACCTGAAAGAAGACCA
>804.1
ACCTTGCACAGTGCCTTTTAAATTCATTTTGCTGGACAGTTGGCAGGCTC
TTTCACTTGAGAGGCTATATCTTAACGATTTAGAATGGAGAGTTTGGCTC
AAGCTCCCTGTGTGTGGTCTGTGCTTTCTATACTTTTATTCTTGGTATTC
CAGAGTCTGGAGGCTTCTCTTTTAAAAATTGCTAGGCTCCTGCCAAATG
TTATAATTTGGGGATGTGAGTTCCTAAGAAATCAACTGACAAGAGGCGAG
ATTAATAGGAGAAATGACATCGAAATTTATTAGCATGCAGGGGGAAAAAA
TTGATTACCAATATCCAGTAGGGTAGAGATGCTTATATACCCACCTC
TTAAGAGAGAGGGAAGTGGATGATTTTAGGGGAATAGTAAATACTTT
>804.2
TATGGGAACCTCACTGGGCTTGAAGAATATAACAAAAGCCTGGGACAAAGT
CTGTTGGGCCCACAGAACAGACAGTGGTTTATGACAAAAGTC
>805.1
CCGGCAGGTACTATTACTAGGTTCACTGTTTCCAGAGGGGTGAAACGGG
GCTTTGGAGAGGTTAAATAACTTGCCAGGGTCACACAGCTATTAAGTGG
TAAAGCTGGGATTTACATGAGCCAGACAAAGAACCCAAGAAGCTAAGCT
ATTCTCTTGAATACCTCCAACATAGGAGGCAAGAAGTGAAGTATTATAC
AGGTTGAGGAGATAAAGGGGAGAGAGGCCTGCAGTGCTAACAGGAGGAGC
TGGGATTCATCCTGGCTTGTCTGATAGGTCAGTTAGTCTTAGAGATACC
CATGAGGTCACCTACTCAAATGGGGCTCAGAGTAGCCTTGTCCCATTC
TGTCAGTGGGCGCAGCTACAGTCTTCCTGGCCTGGAGTGAAGTGGAGGCT
GTCCCCACGTCCCACTTCAGTGAGGCATTCATGTGCACCAACACACTTT
CTAGCTTTATTTGCCTGGAGGGGAAGATTCTCCAGAACCCTTGTAAAGATG
CACAGTGTGGTCTCGGACTGGCAGTGTGGCCTCGGCAGTCCCTGGGAGC
TTGTTAGGAATGCAGAATCTCAAGCTCCTCCCTACTG
>806.1
CCCTTAGCGTGGTCGCGGCCGAGGTACACATATATACACATATATAGA
TATATACACCCACATATATTTGCTGACATTTAATGTGAAGTTTTAGT
CTGGGATATAAAATGGAATGTATGACATCCTCAAATGTCTGAATACTGTT
CACTCCTATGTTTTACATTTAATTTTCCAAAGCAAACATTTCAAGTTGAG
GATTTTATTAGAAAAATAAATCATTTAGCCATATCTAGAAACCAGAAT
AAACAATGCCATAAAGCCTATAGGAAAATGCAGGTCAGATTCATAAATAT
TCATGTGTTTACTTTCAGTACAGGGAGGAATTTGAAGTAGATAGAAACCG
ACCTGGATTACTCCGGTCTGAACTCAGATCACGTAGGGACTTTAATCGTT
GAACAAACGAACCTTTAATAGCGGCTGCACCATCGGGATGTCCTGATCCA
ACATCGAGGGTCGTAAACCTATTGGT
>807.1
AATTCCCATGATGTCAGACCACTGGAGTTTCCAGGGGCAACACCCCATAA
CCGTCCCGCTGCAGAAGAGCATCAGACGTTCAAGTAAGAATGCAAAGGGTA
TCTCAGTGGGAACCGCGGACCAGGAGAGCTCCCAAACCAACACATGGCTA
GGGCTCTCTAGGCCCTTTCAGGCTAGATCTTGACGAGAGAAGAGTAAAGA
TCTTTCTGAGGTTGGTGCAACTGAAGAAACGAAAGTTTCGGCCTCTGCTG
TCAGATCTATGAAAGGAAAGAACTGTGAACCTGTCCCTTTTGTCTTCTT
TGACTTAAACAAAAGAAAATCACTGGAACAAAGTCTTAAAGTAATAACA
GAAATGTCAGAAAAGTTGAACATCTTATGGGCACATGCGGTGAGTTACGC
TAACCTATAGCATCCACTGAGATTAGCCGCATAGGATCTTCCCATGTTA
GAGCTAAAAGGACCTACTGTCCGCCAGCTGCATTGCAGT
>808.1
ACTATCCCCTACCTATAAGGCATTTATAATGTGCTGGGCATTGTGACACT
TTTCATATATTATCTCATGAAATCCTCAC

Table 3

>808.2

AATAATTCTGAAGGGTAGCTGGTATTTTTATCTCCACTTTACAATTCTGA
GGCTTACAGAAGTTAATTCAGTGGCCAGGGTCACACAGTTTACAAGTGC
CACATTGGTGAATATAAAGTAGCAACTTCTAAGTTTCACTCTCCCACTTC
CCTAGTTATTTTCTAAGGCATGAATGTCTGGGAAATAGCATGCATCAGA
T

>808.3

TAGGGTGTGACTATTCATAGATACCTTTGAGCTAATCTTCTGGGAGCCAA
TGTAACCGCAATGCACACTGCAAAACAATGCACGCTTTCTCTGTAAATTA
AAAATGCCAACCGAGCTTGGGAAAAGCCCATCTTTTGATATGAACCAATA
GGGCAGTTTAGTTTTAGAAATAAAGAAAGTCCACTGTTCTGCTTTTCTT
TTTTACAC

>809.1

ACTTTTTCTTTTCTTTTTTTTTTTTTTTTGGAGAATATTGCATACCTAT
TAGAAAAGTCTTTTAAACAATTAATAATTGAAAATGACTGACAACTTACAC
TATTTGATTTAAATAAATAAATAAATGGTCACATGATAACAATCTCCTGA
TTGATATGCTTTATTTAACCAGGTTCTCAAACCATTGGATGTGAAAACCA
AATTTTACAAATGCAGAGGTAAGTGTTGAGTGTTAATGGGATTTTCATATT
AAACATTAAGATCGTATTTGACTAAAAATCTCTTATATACATTTCTAATA
CTGAAGCAAATCGCCAACGTGACTGTAAATTATTTGAAAAATCACAAAT
TTCAGTTAAAATTGAATAATTTTATTATAGGTCTCATAATCTTTTTCAGC
TTACATGGAATCAATGTGTCTTGATTTTTATTCTCGTTAATTTTATAAGG
CCTTCATCTCCTTTCCGTAAATGATTGCCCTCTCATTCCATTTAATGGTG
GTTGTTACACTAGCAATCTGTGGAATTTTACATGTGGTTCGGGATTTTAC
AAAAATTGGA

>810.1

TACTCAAGAAACAGGTTCTCCAGAACTAAGCTAAACTTGTTTGAAATGT
AAATTCTCAGGTATTCTCAGTATAGACCTATAGATTCACTTAGCTGGTGG
GGTCCACCCAACCTCTTTTAAACAAGTCTCCAGTGGATTCTGATGCAATG
CTAACATTTGTGAACACTGTCAAATCAAATGGAGTCACTTGTTTAA
AAATCCTGACAAATAAAGCCAGGGACAGCTATGAAGAGAGGGTCTCATG
CATCAATGCCTGATTAACA

>810.2

AAACCACAATCCTGCACAAAGGTCATCACAACTTACACAAAAAATATCT
TCACAAGGACATC

>811.1

ACAATCATTAATACTATGTTGTAATACTGTTTGTCTTTGTATCCATTCTG
GCGTGTCTCCATACACTTCACTAATATTTGATATACCTGTTTATACCAA
TATAATGCTGCTGCTGTACGTAGAAGCTGTAGTCACCATATCCTCTATTT
GTTCAATTATTTTTCATCTTCTGGCACACTAGGATCTATAACAATGACA
ATATCTTCAAAGCCATTATTATTCAGCTTAATGAAGGAAGTATTTGACTG
GTGCAGCAGGCACAGAACTAAGAGGAAAACAAAACCTCTGAATAACCCCA
TTGTTCTCTCTAGTTATTCCTGGCTCAAATGTTGGTTTGTTCCTCCGCGT

>812.1

ACCTAAGAGTTATTAATACTATTTTCAGTAAAAAAAAAATTTAATAAACC
CTGTGTGATCCCATTGTAACAGAAAGGCTGATGTTTTCTGTTGTGAAATA
CAAATGCAAGGAAAAAATCATTTCTTTGTTCAAAGGATGCATTTCTTCC
ATAAAGAATAATTTGTATTTATTTTAAAGGGTTATTTTAACTTATACAT
CAGCCTATATAAAATACATTTCAAATGATCTGTGCTCTTTAAATTACCA
AAAGCAAATGTTAATTTTTTTTTTCCCTCTAACAGATAACAAGTTTTACTC
CTATGCTGATTTTTCTGGTGCCACTGAAGTTATTTTGA

>813.1

ACATGTGCATAAGAGGGAATGCTTCCCTACATTACTCCAGAATACAAAGC
TTCTTTCTGCCTTTCTCATCCACATAATGGAAGACACTTCTTGGGTGAAA
TACTCCACAGTTATTTCAAGTCTCACTGGTGAGTCTGAATATAAGCTCTA
TGAGAGCAGGGACCTTGTCAGTCTTATTCACAATATCCCCAGCCTCTAGA

Table 3

ACAAGGCTGGCACATAGTAGATGCACAAAAGGTGTTTGCTGAATGAATGG
ATGACTGAGTCTGTGTGGGGTAATGATAGGGCTAAGGATGGGACTCTAAA
CTCAGGTTTCCTCTGTGGGTTTCACAGTTTACTGGTCTTAAGAGGAGAGT
TTCCTAAACTTGCCTTATGATAAAAACCACTTCAGCATTGTTGTAATAAT
TACCCATTCTGTAGATTCTGAGTCAGTGAGCTGAAGTGGAGCTGATGAA
TCTGTTTTTTGTGATACTGCTGCTGCTGCGGTTTTTAACACATGCTTCAG
GTGGTTCTAAGCTTAGGAAACCTTGCCCAAGGATACCATCCTGTCTCTTG
GGA
>814.1
TTATCAAAAACCAACAACCAAAACAAAAAATATTACAACAAACAGAGAA
ACGAATCAAACCAAAAACCAAAAATCTTTCTGGAATTCAAATGATACAT
TATATATACCTATCAAGACAACAACTACTAACTACCTAACTACAAATT
ATCATAAAAATGACTCCTGTCTATATCAATAAAAAACTGCTATTAATAAT
TGAGTATTATAACACA
>815.1
ACAAGTATTATGTATCCATAAAAATTAATAATCTTTAAAAATGCATATG
GGGGTCAGTAGGTAAAAGAAAAGAGAACCAAGAGAGCTGCAGCGGGGAGC
ACAGCTTGCTTTAAACATGAGATCCAGCTCAGTGATCATGCGGGGGAAAA
GGCCCCGGCATTGCTGGAACCTCCTAATATTTAAAAAGATGATGGAACCTTG
AAATTTTATATTTAATCTTCTCATTTTTAAGTGTGGCAATGTATTGAAG
ACTTTGAAGCCTCTGTGCTGGTCAAAACAGATGTATCTGTAGGCTGGATT
TAGTCCACAGC
>816.1
ACAACTGTAATAGCTATTGGTCTTCAAGTGGGTTTAGATTTGGTGACATC
AGTTTGATATTCTCTTAAAGGAAATAAATATTCAAGAACTGATTATGTTT
TAACATGATTATATTATGGTGTTACATAGGCCTCAATTTTTTACAGAA
AGATTTTTGGAACAGGACTGTGAAGTGAGGCTTTTTAAAAAATTATTTTA
TAAGCAGAGAACACAGCCTGATAACTTAGTCAAGGATATACTGTCTGTCT
CACTACTTTGGACTTATATGGCTTCAGATTAAGTCATCCAAGAAACATAC
ATA
>817.1
ACATGTAATAGACACTATGCTACAGCAAAAGCTTTTCTTATTGTCTTTAA
AATTTTCTGGGTGCATAAACTATGT
>817.2
GGTAACTCTTTCCCAATTTTTAACTTTTACATTACAAGTCATTTTCAGAG
TAAAAAGTCATTTAACAAGGCAGATAGAAAGGCCTCAAATCCCTGAGGA
CCAAAAATCCCAACACATTTTCAAAGGGAGAAAATTTCTTTAACTTCA
TGGGAAAAGTATTTTTAACATAATAGAGAGGCTTTATGCAGTCTTTGACA
AGATGATACTTTTGAATAGAACAAGAGAGGAAAATATTTTCATATTATA
ATATTACTGTGTCAAATCTATGTTGTCAAAGAGTGACTATCTCTGATG
AGAAAAAAT
>818.1
AGGGAACAAAATTAATTTTTCAATTCTAATTTTTTTTTTTGGACACA
TGTATTCCTTTTAGTGGAACAAAGGAAAAAATAACTTTTTCTCCAAAT
AGTCGGCCTGGAAAAA
>819.1
ACAACCTGTAATAGCTATTGGTCTTCAAGTGGGTTTAGATTTGGTGACATC
AGTTTGATATTCTCTTAAAGGAAATAAATATTCAAGAACTGATTATGTTT
TAACATGATTATATTATGGTGTTACATAGGCCTCAATTTTTTACAGAA
AGATTTTTGGAACAGGACTGTGAAGTGAGGCTTTTTAAAAAATTATTTTA
TAAGCAGAGAACACAGCCTGATAACTTAGTCAAGGATATACTGTCTGTCT
CACTACTTTGGACTTATATGGCTTCAGATTAAGTCATCCAAGAAACATAC
ATACATTCTAAATGGTATATATTGGGAATATATGCCCTTTAAAGAATC
AGGTCAGAAATGCAATAACAATTAGACTAGACTGTTGCCCGTGTAGGAG
AATGTGTGGTCACTCCTAGTTACTAATTACTCTCACTCAAGATGGAGATGT
TGTCCAGTTTAACATAGTCTTAAGTTTTCTTAAACCAATAATTTATGA

Table 3

GTAGCTTATTACATCTGCAGAGCTACCTTATTATAATAGTACCTGCCCGG
GC
>820.1
ACTAGAAATTAGTTCCAACACTACTGCTGGTGATAAACTCACCATCTACCTTC
ACTTGTTTTCTCTTAATTCTCCAAGAAGTAATCAGGTGAATAAAGAATCA
TCATCAGATAAATTCTCCAAGATTCTTTAAGAAATTAATTTTTATCTAC
TCTTAAATGATTGCACAATTATAGGATAGAAATTACTATCTTGTGCTCTA
ATTCAAATGCTCTTAATGATCCTAGAGAGAAATGAATTACTAGAGATAA
AAGATAAATTTGCTGTGGTTTGCATCTTTGTTCTTTCTTAAACTT
AAC
>821.1
ACTGGAACACAGACCTTACTTAAGCCCACCAAGGCAAGGTTTGGGCTG
CCACAGCGGATTTCAAAAAGACAAAGCAATGCAAGCCACGTGTTCAAAAT
GCCCTAAGTGGCTATTCAAGTAATATATAAAAGTAAGACCAGGCTAATTA
GTATACAATGGGGTAAACCAGAGAGCAGAAAGCCCTTCTTTAAATGAGC
CTACCACTGCTTGGCCTCAGTGTGAATTTAGACCCCATCTTCTGATATT
CAGGAGAAAGTAAAAATCTAGATTTTTATCTAAATCTTTTAATTTTA
AACAGTCACCTGATTT
>822.1
ACAGAGCATCTTAAGGTTGGAAGGACTCTTAGAGACCATAGTCCAGCCTC
CCACTTGATACTGAAACACGTTTGTGAATTCATGGCCGATGTCTAACTTC
CCTCACCACTTTCCGATATGGACAGTTCTCATGCCCAGAAGCAAAACCT
TCTTTATTGTGCCTGTCTCCCTTGACTGTCATGCATATAATCAGCATCT
TTCCCACTAAGTGAAGGGCCAGACTCGAGCACAGGAGCACAGCACCCCT
TAACTCACGAGGGGCTGCATTACACCATCAGCAGGGAGATTACACTTG
TGTCATTTG
>823.1
ACCAAGACTTTAGAGGGCAAAGAACAGAGGATTCTTGAGAAAGGGGACTT
GAAGGTGAAGAGATAAAGGCTGGTGCTTCCAGGAGCGTGGGTCTCCTACG
TTTGTGTTCTGGAAGAATCTTGGACTCAGGCGTGGGCAGCTGGATGCC
TGGGTTCTTAGGCTTCTCCAGGCAATGTAGTTGCCTCTTCTCTCCCC
GCGTACATAGTAAGTGATGATAGATGTTTGATTTGTAAATTACAAATAT
AAATTATACCCCCATTTCCATTTATTTCTTGATATATCAAAATGTGTT
>824.1
ACCCCCATTATAGTAGGGAGACTGAATCTTCAAAGTTACAGGGTGAATCA
ATGATAATGATCTTTCAGCTTTCTGGAGTTAAAAAGCATCAAAATTGGG
AGATATTAGATGATGACATCTAAGTATTAATAAAGGAGATATTAATGA
TGA CTCTAGAAATGAACCTGAATAAGGACTACCGCAATGTGTGTGGTGT
GGGAAAGGACAGTTCTTTAATGGCTGGCTGACCCAGCCTCAATTTTCTT
GCAGCTTCGCCGACACGAGGTGACCATCTGCAATTACGAAGCATCTGCCA
ACCCAGCAGACCATAG
>825.1
ACCTCTCATGGCTTTTTGGTTCCAGCAGTGAGGGCATTGGTGAGATCAGT
GGTAAACTGTGCAAGCTTTCTTTTATCATTAGGAAATGTGAAACGTTGG
ACAAATTTTGAGTTTTAACAAGGACAAAAAGTTGAAAGAAAAGGCACAGT
TAACAAAAAAGGGTGGCTAGATTTATCTTGGGTGATGGAGGAAATGAGAG
AGGAATGCTCTTGAAAGGTGGTCTGTGGATCTGTCTGAATAGAAAGAGCA
CAGTAAGTATGCATTGCCGGAGAAAACGTCCTTGAAGCTGCTTGTCTCAT
GTGTATGATGTG
>826.1
ACTCAACAAGCAGCTGACTTATGTTTTATTGGACATTGTGATACAGGAAC
TGTTTCCAGAGCTCAATAAGGTACGCGGGAAAGTCAACTCAGTTACCTCT
GTTTGGTGTGTGATCACTTGACAGATGCTGTCTACCACCTTTTCAGTGAC
ATCCTAGAAGCTTCTCTATTACCACAGTAACTGGCTAACTAGATATGATC
TTCCCTAATTTTCATGAGCATCTTTTCTGATATAAACCAGGGAGGGA
AAATACAAAGTTGCTTCACTCTGAAGGAGTATTCTCCTCTAGTACCTG

Table 3

>827.1

ACATATATGAAAAGCCAACATTCTAAAGTAGAGGTTCACTTAATTTTTTT
TTTTTCAAGAGAGGCTTCTTGGTAGTTTCATCACACAGTGGTTTTATTA
GGGGATGTAAGGATTACAGAAACATCGTATTTTTTAACATATAGTATTTT
TTGAATATGATTTGAATTAATATAGAAAAGTGCATTTTTTCCAGTTTTTT
TAGGGAAAAGGAGATACTTCACCAGGAGGATAAAAAGGAACAAGAGGGGA
AGGGGAAATAAAAATTCCAGAAAGATGAAAAATTGTTGATGTAAGATGGA
GGCACA

>828.1

ACAAACAAGCTTTGTTAAACTAACCCTTGCCATCCTGGCTACTTTACCCA
ATTAACCACCCTAGCCCAGGACGTTTGCTTTATCACATGTTACAGTTTG
CTATTCCTTTGTTCAATCTTGTAAGTGAAGTGAAGTGAAGTGAAGTGAAGT
TGTTTCTTTATGAAGTTTCCCAGGCCATACAAAAGTGTGTTAGCCTATC
TTCTGTCAGTTTAATTGTGGAAGTCAAGCCAGGCCCTTAAGAGGATGGAGG
AGAGTTTTTCCCACAGCAGTTCTGAATGGGATGAAGTGAAGTGAAGTGAAGT
TCCCCATTGCCACTACACCACCTCCTGATGAGTCTTGCAGCAGAAATACC
GTTTAAGTGTCTGCTTTTATTTTTTCTGATTATCATCCAGTTTTATA
TATTCATATCTGGGTGCTTTGATAATTATATATACATACTTTTTTGATAT
TATTTACTTATTCCTTAC

>829.1

ACTCACAAGCAATAACAGATTCATAGATCAGTTGACATTGGCTGGTCTCC
AGGACAGGAATGTGGCCAAAAGGTGCTTTGTATAGACGCGGGGCACTGAA
TCTGTGTCTCCCCTGTTACCTACTTTTGCCAGTGAAATTTAAGTTTTAA
ATACTTTCAGAATGTATTTTTACTACTGCAAGTTTTTGGTCTTTAAATG
TCAAGTAGCATCTCTCTCTTTCTCTGTCTCTTTCTGTTTCTCTCTCCA
GTTTTTTTTTTTTTTTAAATTTCCATATGGGCTAAAGAATCCAAATATT
TAAAAATCTGGCTCTCTTTTCTCTCTCATAAAGTGAATTATTCCTCTTT
TTTGTTTTATGTAAGTGTATATATTCTTAGTTTTTCTTGAAATCATTGTA

Table 4

>1

NNNNNNNNCCACCTCCTGCGTTTAAGCAATTCTCCGCCTCAGCCTCCCGAGTAGCT
GGGATTACAGGCGCCACCACCATGCCCGGCTAATTTTTTTTTGATTTTTAGTAGAGATGG
GGTTTCACCATCTTGGCCAAGCTGATCTTGAACCTCCTGACCTCATGATCCGCCACCTCGGC
CTCCCAAAGTGCTGGGATTACAGGCATAAGCCACTGCGCCCCGCTCTAATAATAATATTT
AATGAGCTCTTCCATTAAAAACAGTGATAAGATTTATGAGGTTTACAAGAAAGAGTAAGGCA
TGGTAGATGATGTGAATGAGCATATACCCTAATTCCTTGAGAAAAACAAATAGAAATACACTA
AAAGGAACATCACAAGAAGATGCTATTAGTTGTAAATGATTAAATATTTTGTGACATACAGTAT
TTTATTCATTCATATTTATATCTTCTCACATTTACAAAAAGCCATTTAGTGGTTAGGTAAAGAG
TATAAATAGTAAAAGCTCAGAGAGGTTGAAGAGATCATTATGGCTGGGGAAAATTCATAAAG
AAGGTGAGAACTTAACAGAACCTCAGAGGCTGAGTGGGATCAGATAGGCTAAGAGGGTGGC
AGAAGACACTCCACATGAAGAAAAACATGAACAAACAATTCAAGATGCTTTAGGACATAGG
ATACAGGGTGATTGGGCTTGATACTCCGATTAAAGAATGGTAGGGAAAAAACTAGAAAGAA
ATACAGAGGCCTAATCGAAGTCTCAAATCCCAAATAATATTTAAATTTTCATGTATAGAAAA
ATGGACCTCGATCTTTATTCTACCATAACATATAATTCCAAATTCTCTCAGTATGTCCAAAAA
AAAAAAAAAAAAAAAAAGTACCTCGGCCG

>2

NCGCCTGTGGGAGGACGTCCGGGTGGGCGGAACTCCTAGCGGACACCTCGTGGA
GTCCGGCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATT
ATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTACAT
CCTTTTGAGGTCCCACGAGAATATATAAGAGCTTTAAATGCTACCAAATGGAACGAGTATTT
GCAAAACCATTCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCA
TCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTTGGAAT
CTAATCAGCGGAATTGTATCCGTACAATACAAGCACATGAAGGCTTTGTACGAGGAATATG
TACTCGCTTTTGTGGGACTTCTTTTTCACTGTTGGTGATGACAAAACCTGTGAAGCAGTGGAA
AATGGATGGGCCAGGCTATGGAGACGAGGAAGAGCCATTACATACAATATTAGGAAAGACA
GTGTATACTGGGATTGATCATCACTGGAAAGAAGCTGTTTTGCCACATGTGGACAGCAAGT
AGACATTTGGGATGAACAAAGAATAATCCTATATGTTCAATGACCTGGGGATTGACAGTAT
AAGTAGTGTTAAATTTAACCCAATTGAGACATTTCTCTTGGGAAGTTGTGCATCTGACAGGAA
TATAGTACTGTACGATATGAGGCAAGCTACTCTTTGAAAAAGGTTATCTTAGATATGAGAAC
AAATACAATCTGTTGGAACCCCTATGGAAGCTTTCAATTTTACAGCAGCAAATGAAGATTATAA
CTTATATACTTTTGATATGCGTGCCTGACACTCCTGTAATGGTCCATATGGATCATGTATC
TGCAGTGCTTGATGTGGATTACTCTCCCACTGGGAAGGAGTTTGTGTCTGCTAGTTTCGATA
AATCTATTGGAATCTTTCCTGTAGACAAAAGTCGAAGCAGGGAGGTATATCATACAAAGAGAA
TGCAACATGTTATCTGTGTAATAATGGACTTCTGACAGCAAGTATATTATGTGTGGATCTGATG
AAATGAACATTCGCCTGTGGAAAGCTAATGCTTCTGAAAAATTGGGTGTGCTTACATCACGA
GAAAAAGCAGCCAAGGATTATAACCAGAAATTGAAGGAGAAATTTAGCATTATCCTCATATA
AAACGTATAGCTCGTCATCGACATCTACCAAATCTATCTATAGCCAGATTCAGGAACAGCG
CATCATGAAAGAAGCTCGTCGACGAAAGGAAGTGAATCGTATTAAACACAGCAAGCCTGGAT
CTGTGCCACTTGTGTCAGAGAAGAAGAAACACGTAGTGGCAGTTGTAAATAATTGGTATTC
CTAACAATCCTGATGTATAATTATTTGTTACTTTTGATTGAGAACTCTACAAATAAAAGTGCT
GGGACTAGATTAATTGCAACATTTTAGTTATATGTGTAGAGCTTTATTGTTACTCCTTTAGC
TACCCTGAAAAATGATCCTTAAAGGTGGCCTAGTTGGTAAGACTGTTTTATCCTTAATCTGCA
TTCTTCTTTTATTGTAGAAATACAGTATTTGCAACTCATTTTTCTTGTTTTTATTACAGATATAC
TTACTTCTCTTTGATCTATTATTGTAGACACTATACATTCAAATTGACATTTAAGACCAACAT
CTCTTATGTTATCTTTAATATTACTTTGAATAATGATTGCAATGATGTTTCTCCTGTGATTCCA
CATAACATTTAGAATAATGATGTCAATTTTTACAACGAATTTATTTCTAGTGCTTTACTTATA